

## Mouse Anti-KLK3 Monoclonal Antibody

CAB-1934MH Mouse(KLK3)

Lot. No. (See product label)

### PRODUCT INFORMATION

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| <b>Product Overview</b>    | Mouse Anti-KLK3 Monoclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Antigen Description</b> | Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms. |
| <b>specificity</b>         | Reacts with total PSA (free PSA and PSA complexed with ACT)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Target</b>              | KLK3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Immunogen</b>           | Purified PSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host</b>                | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Isotype</b>             | IgG1, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>              | Ascites                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Clone</b>               | C731M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Affinity Constant</b>   | Not determined                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purification</b>        | ≥90 % pure (SDS-PAGE). Protein A chromatography. Product is 0.2um filtered.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>conjugation</b>         | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Applications</b>        | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### PACKAGING

|                      |                                                                                                                                                                                                                                                                                                   |
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| <b>Format</b>        | Purified, Liquid                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b> | 5.98mg/ml (OD280nm, E1% = 14)5.98mg/ml (OD280nm, E1% = 14)                                                                                                                                                                                                                                        |
| <b>Buffer</b>        | PBS, pH 7.4+0.2                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>       | Short term (up to 7 days) store at 2-8°C. Long term, aliquot and store at -20°C. Avoid multiple freeze/thaw cycles.                                                                                                                                                                               |
| <b>Preservative</b>  | 0.05 % Sodium azide                                                                                                                                                                                                                                                                               |
| <b>Warning</b>       | This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1–1.0 %. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains. |

### ANTIGEN GENE INFORMATION

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|------------------------|----------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">KLK3 kallikrein-related peptidase 3 [ Homo sapiens ]</a> |
| <b>Official Symbol</b> | KLK3                                                                 |

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| <b>Synonyms</b>            | KLK3; kallikrein-related peptidase 3; APS, kallikrein 3, (prostate specific antigen); prostate-specific antigen; PSA; seminin; P-30 antigen; kallikrein-3; semenogelase; gamma-seminoprotein; prostate specific antigen; APS; hK3; KLK2A1;                                                                                                                           |
| <b>GeneID</b>              | <a href="#">354</a>                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | <a href="#">NM_001030047</a>                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>      | <a href="#">NP_001025218</a>                                                                                                                                                                                                                                                                                                                                         |
| <b>MIM</b>                 | <a href="#">176820</a>                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>          | P07288                                                                                                                                                                                                                                                                                                                                                               |
| <b>Chromosome Location</b> | 19q13.41                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | Coregulation of Androgen receptor activity, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Pathways in cancer, organism-specific biosystem; Prostate cancer, organism-specific biosystem; Prostate cancer, conserved biosystem; |
| <b>Function</b>            | peptidase activity; protein binding; serine-type endopeptidase activity; serine-type peptidase activity;                                                                                                                                                                                                                                                             |