

## Immunotag™ p130 Cas Polyclonal Antibody

| Antibody Specification |                                                                                                                                                                                                                                                                                                |
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| Catalog No.            | ITT3489                                                                                                                                                                                                                                                                                        |
| Product Description    | Immunotag™ p130 Cas Polyclonal Antibody                                                                                                                                                                                                                                                        |
| Size                   | 50 µg, 100 µg                                                                                                                                                                                                                                                                                  |
| Conjugation            | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                                                                                                                                                  |
| IMPORTANT NOTE         | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.                                                                                                                             |
| Target Protein         | p13000 Cas                                                                                                                                                                                                                                                                                     |
| Clonality              | Polyclonal                                                                                                                                                                                                                                                                                     |
| Storage/Stability      | -20°C/1 year                                                                                                                                                                                                                                                                                   |
| Application            | WB,IHC-p,ELISA                                                                                                                                                                                                                                                                                 |
| Recommended Dilution   | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.                                                                                                                                                                        |
| Concentration          | 1 mg/ml                                                                                                                                                                                                                                                                                        |
| Reactive Species       | Human,Mouse,Rat                                                                                                                                                                                                                                                                                |
| Host Species           | Rabbit                                                                                                                                                                                                                                                                                         |
| Immunogen              | Synthesized peptide derived from p130 Cas, at AA range: 350-430                                                                                                                                                                                                                                |
| Specificity            | p130 Cas Polyclonal Antibody detects endogenous levels of p130 Cas protein.                                                                                                                                                                                                                    |
| Purification           | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen                                                                                                                                                                           |
| Form                   | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                        |
| Gene Name              | BCAR1                                                                                                                                                                                                                                                                                          |
| Accession No.          | P56945 Q61140 Q63767                                                                                                                                                                                                                                                                           |
| Alternate Names        | BCAR1; CAS; CASS1; CRKAS; Breast cancer anti-estrogen resistance protein 1; CRK-associated substrate; Cas scaffolding protein family member 1; p130cas                                                                                                                                         |
| Description            | BCAR1, Cas family scaffolding protein(BCAR1) Homo sapiens BCAR1, or CAS, is an Src (MIM 190090) family kinase substrate involved in various cellular events, including migration, survival, transformation, and invasion (Sawada et al., 2006 [PubMed 17129785]).[supplied by OMIM, May 2009], |

## Antibody Specification

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| Cell Pathway/<br>Category   | Chemokine,Focal adhesion,Leukocyte transendothelial migration,Regulates Actin and Cytoskeleton,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Protein<br>Expression       | Caudate nucleus,Cerebellum,Cornea,Epithelium,Kidney,Lung,Mammary ca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Subcellular<br>Localization | ruffle,nucleolus,cytoplasm,cytosol,plasma membrane,focal adhesion,actin cytoskeleton,lamellipodium,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Protein Function            | <p>domain:A serine-rich region promotes activation of the serum response element (SRE).,domain:Contains a central domain (substrate domain) containing multiple potential SH2-binding sites and a C-terminal domain containing a divergent helix-loop-helix (HLH) motif. The SH2-binding sites putatively bind CRK, NCK and ABL SH2 domains. The HLH motif is absolutely required for the induction of pseudohyphal growth in yeast and mediates heterodimerization with CASL.,domain:The SH3 domain is necessary for the localization of the protein to focal adhesions and interacts with one proline-rich region of focal adhesion kinase 1.,function:Docking protein which plays a central coordinating role for tyrosine-kinase-based signaling related to cell adhesion. Implicated in induction of cell migration. Overexpression confers antiestrogen resistance on breast cancer cells.,PTM:Focal adhesion kinase 1 phosphorylates the protein at the YDYVHL motif. SRC-family kinases are recruited to the phosphorylated sites and can phosphorylate other tyrosine residues. Tyrosine phosphorylation is triggered by integrin mediated adhesion of cells to the extracellular matrix.,similarity:Belongs to the CAS family.,similarity:Contains 1 SH3 domain.,subcellular location:Unphosphorylated form localizes in the cytoplasm and can move to the membrane upon tyrosine phosphorylation.,subunit:Forms complexes in vivo with focal adhesion kinase 1, adapter protein CRKL and LYN kinase. Can heterodimerize with CASL. Interacts with BCAR3, NPHP1, PTK2B and SH2D3C (By similarity). Interacts with activated CSPG4. Interacts with INPPL1/SHIP2.,tissue specificity:Widely expressed with an abundant expression in the testis. Low level of expression seen in the liver, thymus, and peripheral blood leukocytes. The protein has been detected in a B-cell line.,</p> |
| Usage                       | For Research Use Only! Not for diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |