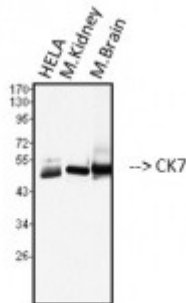


## Anti-CK7 antibody



Western Blot (WB) analysis of 1. HELA 2. Mouse kidney 3. Mouse brain cells using CK7 Monoclonal Antibody. (STJ96956)



### Description

CK7 is a protein encoded by the KRT7 gene which is approximately 51,3 kDa. CK7 is localised to the cytoplasm. It is involved in cytoskeletal signalling, developmental biology and keratinization. It is a type II cytokeratin that consists of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains co-expressed during differentiation of simple and stratified epithelial tissues. It also blocks interferon-dependent interphase and stimulates DNA synthesis in cells. CK7 is expressed in epidermal, bronchial and mesothelial cells. Mutations in the KRT7 gene may result in pseudo myxoma peritonei and eccrine adenocarcinoma. STJ96956 was developed from clone 12D7 and was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen. This antibody detects endogenous CK7 proteins.

|                           |                                                                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model</b>              | STJ96956                                                                                                                                                   |
| <b>Host</b>               | Mouse                                                                                                                                                      |
| <b>Reactivity</b>         | Human, Mouse, Rat                                                                                                                                          |
| <b>Applications</b>       | IHC, IP, WB                                                                                                                                                |
| <b>Immunogen</b>          | Synthetic Peptide                                                                                                                                          |
| <b>Gene ID</b>            | <a href="#">3855</a>                                                                                                                                       |
| <b>Gene Symbol</b>        | <a href="#">KRT7</a>                                                                                                                                       |
| <b>Dilution range</b>     | WB 1:1000-2000IHC 1:200IP 1:200                                                                                                                            |
| <b>Specificity</b>        | The antibody detects endogenous CK7 proteins.                                                                                                              |
| <b>Tissue Specificity</b> | Expressed in cultured epidermal, bronchial and mesothelial cells but absent in colon, ectocervix and liver. Observed throughout the glandular cells in the |

junction between stomach and esophagus but is absent in the esophagus.

|                                         |                                                                                                                                                                                |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purification</b>                     | The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.                                                                     |
| <b>Clone ID</b>                         | 12D7                                                                                                                                                                           |
| <b>Note</b>                             | For Research Use Only (RUO).                                                                                                                                                   |
| <b>Protein Name</b>                     | Keratin, type II cytoskeletal 7 Cytokeratin-7 CK-7 Keratin-7 K7 Sarcolectin Type-II keratin Kb7                                                                                |
| <b>Clonality</b>                        | Monoclonal                                                                                                                                                                     |
| <b>Conjugation</b>                      | Unconjugated                                                                                                                                                                   |
| <b>Isotype</b>                          | IgG1                                                                                                                                                                           |
| <b>Formulation</b>                      | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                        |
| <b>Storage Instruction</b>              | Store at -20°C, and avoid repeat freeze-thaw cycles.                                                                                                                           |
| <b>Database Links</b>                   | <a href="https://www.ncbi.nlm.nih.gov/condensedset/HGNC:6445OMIM:148059">HGNC:6445OMIM:148059</a>                                                                              |
| <b>Alternative Names</b>                | Keratin, type II cytoskeletal 7 Cytokeratin-7 CK-7 Keratin-7 K7 Sarcolectin Type-II keratin Kb7                                                                                |
| <b>Function</b>                         | Blocks interferon-dependent interphase and stimulates DNA synthesis in cells. Involved in the translational regulation of the human papillomavirus type 16 E7 mRNA (HPV16 E7). |
| <b>Cellular Localization</b>            | Cytoplasm                                                                                                                                                                      |
| <b>Post-translational Modifications</b> | Arg-20 is dimethylated, probably to asymmetric dimethylarginine.                                                                                                               |