

## Rabbit anti-Mouse, Rat PTK7 Polyclonal Antibody | anti-PTK7 antibody

RABBIT ANTI HUMAN PTK7 (N-TERMINAL)

|                              |                       |                                 |                                                           |
|------------------------------|-----------------------|---------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA50012</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Mouse, Rat</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry</b> |
|------------------------------|-----------------------|---------------------------------|-----------------------------------------------------------|

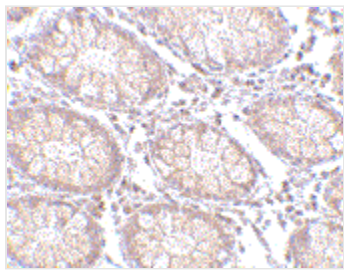
### PRODUCT SYNONYMS

PTK7; Polyclonal Antibody; RABBIT ANTI HUMAN PTK7 (N-TERMINAL); anti-PTK7 antibody

### PRODUCT SPECIFICATIONS

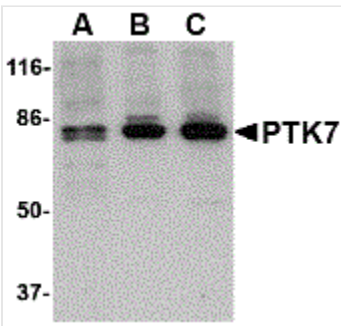
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Reactivity                                     | Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Specificity                                    | <p>This item recognises human Protein tyrosine kinase-like 7 (PTK7), a member of the receptor tyrosine kinase family, otherwise known as Colon Carcinoma Kinase 4 (CCK4). PTK7 is highly expressed in the kidney, liver, lung, pancreas and melanocytes with weaker expression being detected in the thyroid gland, ovaries, brain, heart and skeletal muscle.</p> <p>PTK7 may play a role in embryonic development. It is thought to function as a cell adhesion molecule and as a novel regulator of the planar cell polarity (PCP) pathway in vertebrates.</p> <p>Studies also suggest that PTK7 may be involved in the tumour progression. A loss of PTK7 expression has been observed in melanoma cell lines, whereas increased levels of PTK7 have been detected in high-throughput acute myeloid leukaemia samples. In addition, PTK7 is not expressed in normal colon but has been detected in colon carcinomas and as such is a potential marker for tumour progression.</p> |
| Form/Format                                    | Purified<br>Purified IgG - liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Concentration                                  | IgG concentration 1.0 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sequence Length                                | 1078                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Applicable Applications for anti-PTK7 antibody | WB (Western Blot), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perservative Stabilisers                       | 0.02% Sodium Azide<br>Preparation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen                                      | A 15 amino acid peptide located near the N-terminal region of human PTK7.<br>Buffer Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Target Species                                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                        | Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.<br>Shelf Life: 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

IMAGES



Application Data

Formalin fixed, paraffin embedded human colon stained with Rabbit anti Human PTK7 (AAA50012) following heat mediated antigen retrieval using sodium citrate buffer (pH6.0)



Application Data

Western blot analysis of human (A) mouse (B) and Rat (C) colon lysates probed with Rabbit anti Human PTK7 (AAA50012) at 1ug/ml

ADDITIONAL INFORMATION

Related Product Information for anti-PTK7 antibody

MBS222895 recognises human Protein tyrosine kinase-like 7 (PTK7), a member of the receptor tyrosine kinase family, otherwise known as Colon Carcinoma Kinase 4 (CCK4). PTK7 is highly expressed in the kidney, liver, lung, pancreas and melanocytes with weaker expression being detected in the thyroid gland, ovaries, brain, heart and skeletal muscle. PTK7 may play a role in embryonic development. It is thought to function as a cell adhesion molecule and as a novel regulator of the planar cell polarity (PCP) pathway in vertebrates. Studies also suggest that PTK7 may be involved in the tumour progression. A loss of PTK7 expression has been observed in melanoma cell lines, whereas increased levels of PTK7 have been detected in high-throughput acute myeloid leukaemia samples. In addition, PTK7 is not expressed in normal colon but has been detected in colon carcinomas and as such is a potential marker for tumour progression.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 393715082                                                                                                                                                       |
| NCBI GeneID                      | 5754                                                                                                                                                            |
| NCBI Accession #                 | NP_001257327.1                                                                                                                                                  |
| NCBI GenBank Nucleotide #        | NM_001270398.1                                                                                                                                                  |
| UniProt Accession #              | Q13308; Q13417; Q5T650; Q6IQ54; Q8NFA5; Q8NFA6; Q8NFA7; Q8NFA8; A8K974; B7Z477; E9PFZ5                                                                          |
| Molecular Weight                 | 119,197 Da                                                                                                                                                      |
| NCBI Official Full Name          | inactive tyrosine-protein kinase 7 isoform e                                                                                                                    |
| NCBI Official Synonym Full Names | protein tyrosine kinase 7 (inactive)                                                                                                                            |
| NCBI Official Symbol             | PTK7                                                                                                                                                            |
| NCBI Official Synonym Symbols    | CCK4; CCK-4                                                                                                                                                     |
| NCBI Protein Information         | inactive tyrosine-protein kinase 7; PTK7 protein tyrosine kinase 7; colon carcinoma kinase 4; pseudo tyrosine kinase receptor 7; tyrosine-protein kinase-like 7 |
| UniProt Protein Name             | Inactive tyrosine-protein kinase 7                                                                                                                              |
| UniProt Gene Name                | PTK7                                                                                                                                                            |
| UniProt Synonym Gene Names       | CCK4; CCK-4                                                                                                                                                     |
| UniProt Entry Name               | PTK7_HUMAN                                                                                                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

