

PTK7 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant PTK7. Catalog # AT3488a

Specification

PTK7 Antibody (monoclonal) (M02) - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype Calculated MW

WB, IF, E <u>Q13308</u> <u>NM_002821</u> Human mouse Monoclonal IgG2b Kappa 118392

PTK7 Antibody (monoclonal) (M02) - Additional Information

Gene ID 5754

Other Names Inactive tyrosine-protein kinase 7, Colon carcinoma kinase 4, CCK-4, Protein-tyrosine kinase 7, Pseudo tyrosine kinase receptor 7, Tyrosine-protein kinase-like 7, PTK7, CCK4

Target/Specificity PTK7 (NP_002812, 36 a.a. ~ 145 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution WB~~1:500~1000 IF~~1:50~200 E~~N/A

Format Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions PTK7 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

PTK7 Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

<u>Western Blot</u>



- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

PTK7 Antibody (monoclonal) (M02) - Images



Immunofluorescence of monoclonal antibody to PTK7 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .





PTK7 monoclonal antibody (M02), clone 4C6 Western Blot analysis of PTK7 expression in A-431 ((Cat # AT3488a)



Detection limit for recombinant GST tagged PTK7 is approximately 1ng/ml as a capture antibody. **PTK7 Antibody (monoclonal) (M02) - Background**

Receptor protein tyrosine kinases transduce extracellular signals across the cell membrane. A subgroup of these kinases lack detectable catalytic tyrosine kinase activity but retain roles in signal transduction. The protein encoded by this gene is a member of this subgroup of tyrosine kinases and may function as a cell adhesion molecule. This gene is thought to be expressed in colon carcinomas but not in normal colon, and therefore may be a marker for or may be involved in tumor progression. Four transcript variants encoding four different isoforms have been found for this gene.

PTK7 Antibody (monoclonal) (M02) - References

Soluble PTK7 inhibits tube formation, migration, and invasion of endothelial cells and angiogenesis. Shin WS, et al. Biochem Biophys Res Commun, 2008 Jul 11. PMID 18471990.Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.Comparative integromics on non-canonical WNT or planar cell polarity signaling molecules: transcriptional mechanism of PTK7 in colorectal cancer and that of SEMA6A in undifferentiated ES cells. Katoh M, et al. Int J Mol Med, 2007 Sep. PMID 17671748.The GxxxG-containing transmembrane domain of the CCK4 oncogene does not encode preferential self-interactions. Kobus FJ, et al. Biochemistry, 2005 Feb 8. PMID 15683231.Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039.