

PTK7 Antibody (monoclonal) (M02)**Mouse monoclonal antibody raised against a partial recombinant PTK7.****Catalog # AT3488a****Specification**

PTK7 Antibody (monoclonal) (M02) - Product Information

Application	WB, IF, E
Primary Accession	Q13308
Other Accession	NM_002821
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	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.

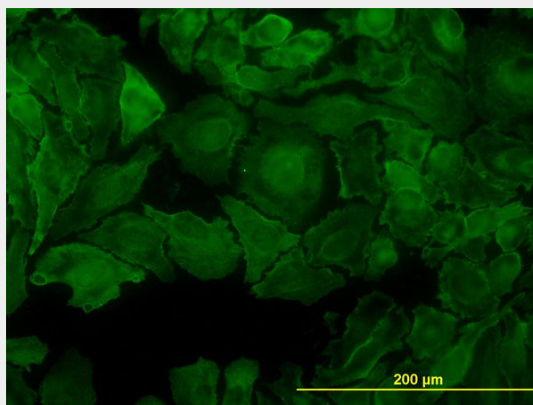
PTK7 Antibody (monoclonal) (M02) - Protocols

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

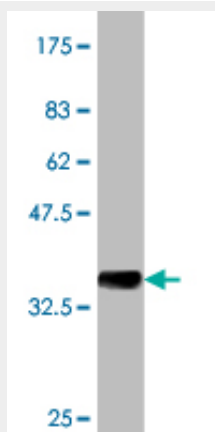
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

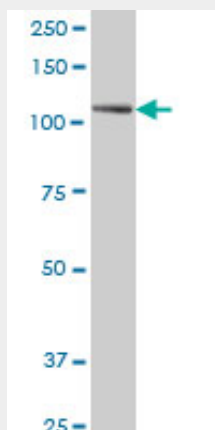
PTK7 Antibody (monoclonal) (M02) - Images



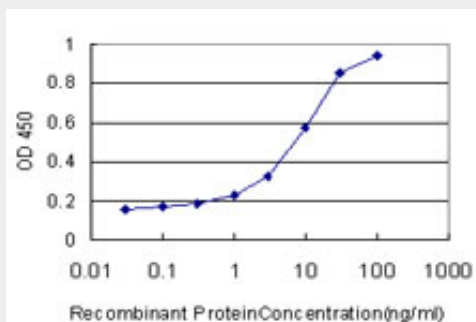
Immunofluorescence of monoclonal antibody to PTK7 on HeLa cell. [antibody concentration 10 ug/ml]



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 integrinomics 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.