

## PTK7 Antibody (monoclonal) (M06)

Mouse monoclonal antibody raised against a partial recombinant PTK7.

Catalog # AT3489a

### Product Information

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Application	WB, IF, E
Primary Accession	<a href="#">Q13308</a>
Other Accession	<a href="#">NM_002821</a>
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	4F5
Calculated MW	118392

### Additional Information

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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) (M06) is for research use only and not for use in diagnostic or therapeutic procedures.

### Background

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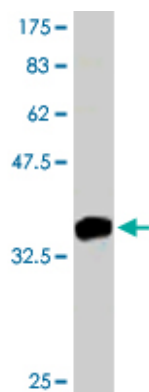
Receptor protein tyrosine kinases transduce extracellular signals across the cell membrane. A subgroup of these kinases lack detectable catalytic tyrosine kinase activity but retain roles in signal transduction. The protein encoded by this gene is a member of this subgroup of tyrosine kinases and may 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.

### References

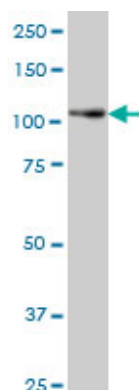
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Soluble PTK7 inhibits tube formation, migration, and invasion of endothelial cells and angiogenesis. Shin WS, et al. *Biochem Biophys Res Commun*, 2008 Jul 11. PMID 18471990. Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. *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.

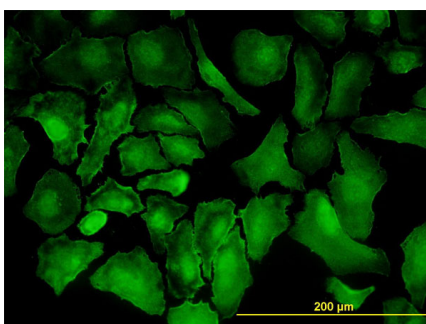
## Images



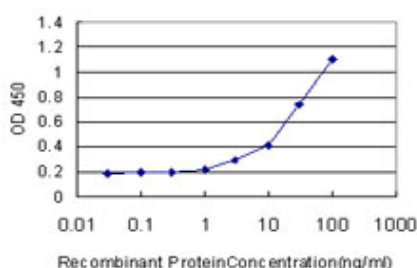
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



PTK7 monoclonal antibody (M06), clone 4F5 Western Blot analysis of PTK7 expression in A-431 (Cat # AT3489a)



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



Detection limit for recombinant GST tagged PTK7 is approximately 1 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.