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PTK7 Antibody (monoclonal) (M02)

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

Product Information

Application	WB, IF, E
Primary Accession	Q13308
Other Accession	NM_002821
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	4C6
Calculated MW	118392

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.

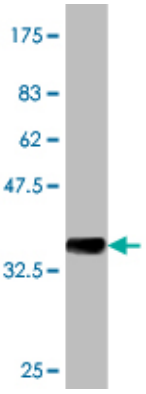
Background

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.

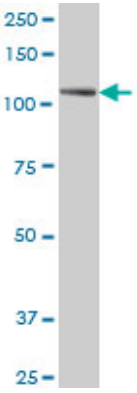
References

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.

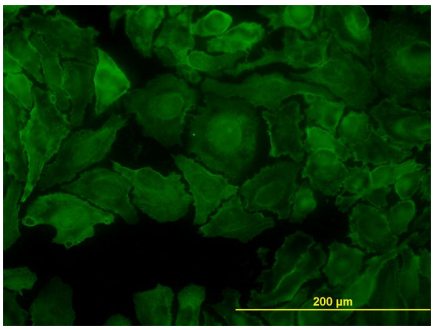
Images



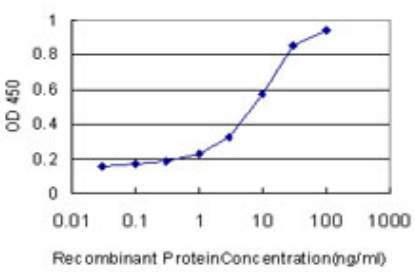
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



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



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



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

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