

RTKN Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RTKN.

Catalog # AT3733a

Product Information

Application	WB, IHC, E
Primary Accession	Q9BST9
Other Accession	NM_033046
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2E6
Calculated MW	62667

Additional Information

Gene ID	6242
Other Names	Rhotekin, RTKN (HGNC:10466), RTKN1
Target/Specificity	RTKN (NP_149035, 451 a.a. ~ 549 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 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	RTKN Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

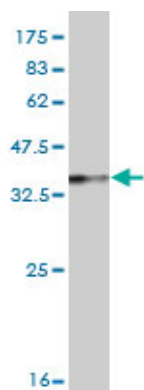
This gene encodes a scaffold protein that interacts with GTP-bound Rho proteins. Binding of this protein inhibits the GTPase activity of Rho proteins. This protein may interfere with the conversion of active, GTP-bound Rho to the inactive GDP-bound form by RhoGAP. Rho proteins regulate many important cellular processes, including cytokinesis, transcription, smooth muscle contraction, cell growth and transformation. Dysregulation of the Rho signal transduction pathway has been implicated in many forms of cancer. Alternative splicing results in multiple transcript variants encoding different isoforms.

References

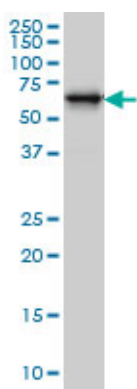
Semaphorin 4D signaling requires the recruitment of phospholipase C gamma into the plexin-B1 receptor

complex. Swiercz JM, et al. Mol Cell Biol, 2009 Dec. PMID 19805522.miR-145 inhibits breast cancer cell growth through RTKN. Wang S, et al. Int J Oncol, 2009 May. PMID 19360360.Interaction of a multi-domain adaptor protein, vinexin, with a Rho-effector, Rhotekin. Nagata K, et al. Med Mol Morphol, 2009 Mar. PMID 19294487.ACF7 regulates cytoskeletal-focal adhesion dynamics and migration and has ATPase activity. Wu X, et al. Cell, 2008 Oct 3. PMID 18854161.SEPT9 sequence alternations causing hereditary neuralgic amyotrophy are associated with altered interactions with SEPT4/SEPT11 and resistance to Rho/Rhotekin-signaling. Sudo K, et al. Hum Mutat, 2007 Oct. PMID 17546647.

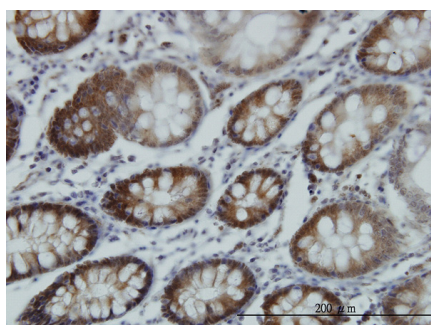
Images



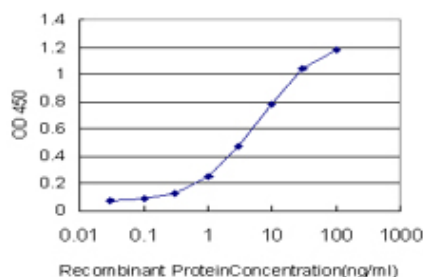
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



RTKN monoclonal antibody (M01), clone 2E5 Western Blot analysis of RTKN expression in A-431 ((Cat # AT3733a)



Immunoperoxidase of monoclonal antibody to RTKN on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged RTKN is approximately 0.3ng/ml as a capture antibody.

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