

RIN2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RIN2.

Catalog # AT3642a

Product Information

Application	WB, IHC, E
Primary Accession	Q8WYP3
Other Accession	NM_018993
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1E8
Calculated MW	100163

Additional Information

Gene ID	54453
Other Names	Ras and Rab interactor 2, Ras association domain family 4, Ras inhibitor JC265, Ras interaction/interference protein 2, RIN2, RASSF4
Target/Specificity	RIN2 (NP_061866, 786 a.a. ~ 894 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	RIN2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

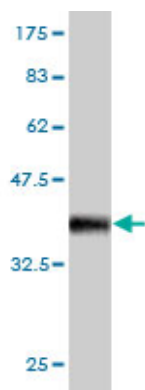
The RAB5 protein is a small GTPase involved in membrane trafficking in the early endocytic pathway. The protein encoded by this gene binds the GTP-bound form of the RAB5 protein preferentially over the GDP-bound form, and functions as a guanine nucleotide exchange factor for RAB5. The encoded protein is found primarily as a tetramer in the cytoplasm and does not bind other members of the RAB family.

References

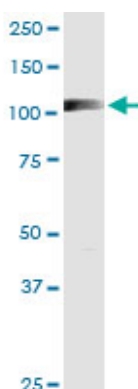
The RIN2 syndrome: a new autosomal recessive connective tissue disorder caused by deficiency of Ras and Rab interactor 2 (RIN2). Syx D, et al. Hum Genet, 2010 Jul. PMID 20424861. RIN2 deficiency results in

macrocephaly, alopecia, cutis laxa, and scoliosis: MACS syndrome. Basel-Vanagaite L, et al. Am J Hum Genet, 2009 Aug. PMID 19631308. Involvement of the Ras-Ras-activated Rab5 guanine nucleotide exchange factor RIN2-Rab5 pathway in the hepatocyte growth factor-induced endocytosis of E-cadherin. Kimura T, et al. J Biol Chem, 2006 Apr 14. PMID 16423831. Complete sequencing and characterization of 21,243 full-length human cDNAs. Ota T, et al. Nat Genet, 2004 Jan. PMID 14702039. RIN3: a novel Rab5 GEF interacting with amphiphysin II involved in the early endocytic pathway. Kajiho H, et al. J Cell Sci, 2003 Oct 15. PMID 12972505.

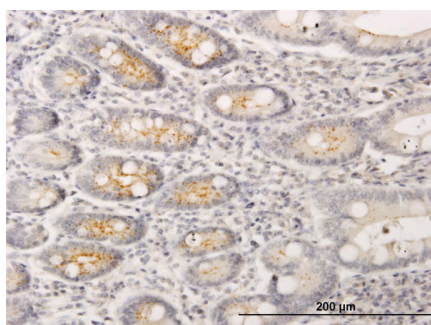
Images



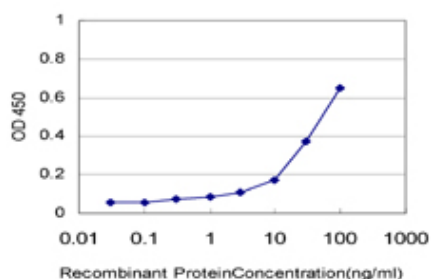
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .



RIN2 monoclonal antibody (M01), clone 1E7. Western Blot analysis of RIN2 expression in human liver.



Immunoperoxidase of monoclonal antibody to RIN2 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 1.5 ug/ml]



Detection limit for recombinant GST tagged RIN2 is approximately 1 ng/ml as a capture antibody.