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UNC13D Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant UNC13D.
Catalog # AT4470a

Product Information

Application	WB, E
Primary Accession	Q70J99
Other Accession	NM_199242
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2C7
Calculated MW	123282

Additional Information

Gene ID	201294
Other Names	Protein unc-13 homolog D, Munc13-4, UNC13D
Target/Specificity	UNC13D (NP_954712.1, 2 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 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	UNC13D Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

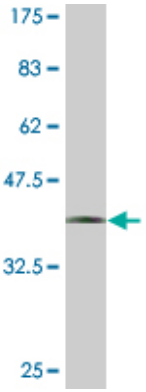
This gene encodes a protein that is a member of the UNC13 family, containing similar domain structure as other family members but lacking an N-terminal phorbol ester-binding C1 domain present in other Munc13 proteins. The protein appears to play a role in vesicle maturation during exocytosis and is involved in regulation of cytolytic granules secretion. Mutations in this gene are associated with familial hemophagocytic lymphohistiocytosis type 3, a genetically heterogeneous, rare autosomal recessive disorder.

References

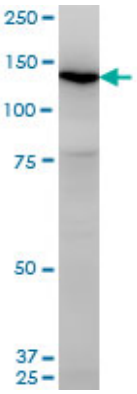
UNC13D is the predominant causative gene with recurrent splicing mutations in Korean patients with familial hemophagocytic lymphohistiocytosis. Yoon HS, et al. Haematologica, 2010 Apr. PMID

20015888.Different NK cell-activating receptors preferentially recruit Rab27a or Munc13-4 to perforin-containing granules for cytotoxicity. Wood SM, et al. Blood, 2009 Nov 5. PMID 19704116.Neonatal primary hemophagocytic lymphohistiocytosis in Turkish children. Gurgey A, et al. J Pediatr Hematol Oncol, 2008 Dec. PMID 19131769.Microbe sensing, positive feedback loops, and the pathogenesis of inflammatory diseases. Beutler B. Immunol Rev, 2009 Jan. PMID 19120489.Macrophage activation syndrome in patients with systemic juvenile idiopathic arthritis is associated with MUNC13-4 polymorphisms. Zhang K, et al. Arthritis Rheum, 2008 Sep. PMID 18759271.

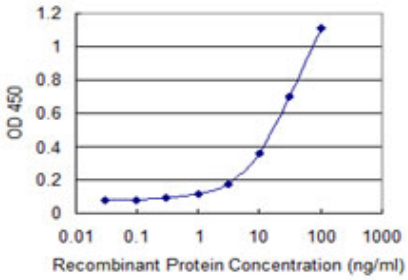
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.41 KDa) .



UNC13D monoclonal antibody (M05), clone 2C7. Western Blot analysis of UNC13D expression in Jurkat ((Cat # AT4470a)



Detection limit for recombinant GST tagged UNC13D is 0.3 ng/ml as a capture antibody.