10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

VNN1 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a partial recombinant VNN1.
Catalog # AT4515a

Product Information

Application	IP, E
Primary Accession	O95497
Other Accession	NM_004666
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2B10
Calculated MW	57012

Additional Information

Gene ID	8876
Other Names	Pantetheinase, Pantetheine hydrolase, Tiff66, Vascular non-inflammatory molecule 1, Vanin-1, VNN1
Target/Specificity	VNN1 (NP_004657, 298 a.a. ~ 397 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	IP~~N/A 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	VNN1 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

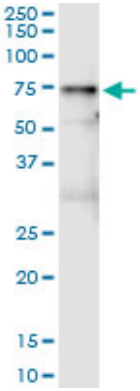
Background

This gene encodes a member of the vanin family of proteins, which share extensive sequence similarity with each other, and also with biotinidase. The family includes secreted and membrane-associated proteins, a few of which have been reported to participate in hematopoietic cell trafficking. No biotinidase activity has been demonstrated for any of the vanin proteins, however, they possess pantetheinase activity, which may play a role in oxidative-stress response. This protein, like its mouse homolog, is likely a GPI-anchored cell surface molecule. The mouse protein is expressed by the perivascular thymic stromal cells and regulates migration of T-cell progenitors to the thymus. This gene lies in close proximity to, and in the same transcriptional orientation as, two other vanin genes on chromosome 6q23-q24.

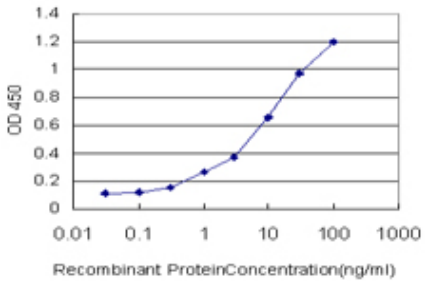
References

Polymorphisms in predicted miRNA binding sites and osteoporosis. Lei SF, et al. J Bone Miner Res, 2010 Jul 16. PMID 20641033.Novel blood biomarkers of pancreatic cancer-associated diabetes mellitus identified by peripheral blood-based gene expression profiles. Huang H, et al. Am J Gastroenterol, 2010 Jul. PMID 20571492.Expression of the vanin gene family in normal and inflamed human skin: induction by proinflammatory cytokines. Jansen PA, et al. J Invest Dermatol, 2009 Sep. PMID 19322213.Admixture mapping provides evidence of association of the VNN1 gene with hypertension. Zhu X, et al. PLoS One, 2007 Nov 28. PMID 18043751.Complex genetic control of susceptibility to malaria: positional cloning of the Char9 locus. Min-Oo G, et al. J Exp Med, 2007 Mar 19. PMID 17312006.

Images



Immunoprecipitation of VNN1 transfected lysate using anti-VNN1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with VNN1 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged VNN1 is approximately 0.1ng/ml as a capture antibody.

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