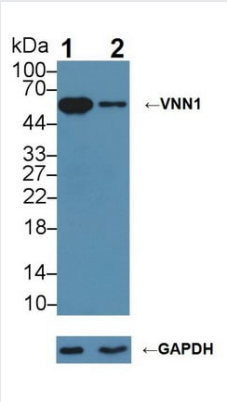
Vanin 1 (VNN1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Vanin 1 (VNN1), Polyclonal Antibody
Full Product Name	HRP-Linked Polyclonal Antibody to Vanin 1 (VNN1)
Product Gene Name	anti-VNN1 antibody
Product Synonym Names	Pantetheinase; Pantetheine hydrolase; Tiff66; Vascular non-inflammatory molecule 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: VNN1 (MBS2004746) HRP Conjugated Antibody: VNN1 (MBS2067006)
Matching Pairs	HRP Conjugated Antibody: VNN1 (MBS2067006) Immunogen: VNN1 (MBS2009432)
Molecular Weight	57,012 Da
OMIM	AJ132099 mRNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	VNN1 (Val389~Arg497)
Conjugation	HRP
Cross Reactivity	Human
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2004746
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-VNN1 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-VNN1 antibody	MBS2067006 is an antibody targeting VNN1. Also known as HRP-Linked Polyclonal Antibody to Vanin 1 (VNN1). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-VNN1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Knockout Validation of anti-VNN1 antibody
Knockout Validation: Lane 1: Wild-type BXPC-3 cell lysate;;Lane 2: VNN1 knockout BXPC-3 cell lysate;;Predicted MW: 57kDa ;Observed MW: 57kDa;Primary Ab: 3ug/ml Rabbit Anti-Human VNN1 Antibody;Second Ab: 0.2ug/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody;(#MBS2086047)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VNN1. It may not necessarily be applicable to this product.

NCBI GI #	119568405
NCBI GeneID	8876
NCBI Accession #	EAW48020.1
UniProt Secondary Accession #	Q4JFW6; Q4VAS7; Q4VAS8; Q4VAS9; Q9UF16; Q9UJF4; A8K310
UniProt Related Accession #	O95497
NCBI Official Full Name	vanin 1
NCBI Official Synonym Full Names	vanin 1
NCBI Official Symbol	VNN1
NCBI Official Synonym Symbols	HDLCQ8; Tiff66
UniProt Protein Name	Pantetheinase
UniProt Synonym Protein Names	Pantetheine hydrolase; Tiff66; Vascular non-inflammatory molecule 1; Vanin-1
Protein Family	Pantetheinase
UniProt Gene Name	VNN1
UniProt Synonym Gene Names	Vanin-1
NCBI Protein Information	pantetheinase
NCBI Summary for VNN1	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. [provided by RefSeq, Feb 2009]

UniProt Comments for VNN1	VNN1: Amidohydrolase that hydrolyzes specifically one of the carboamide linkages in D-pantetheine thus recycling pantothenic acid (vitamin B5) and releasing cysteamine. Belongs to the CN hydrolase family. BTD/VNN subfamily. Protein type: Cell adhesion; Cofactor and Vitamin Metabolism - pantothenate and CoA biosynthesis; EC 3.5.1.92; Hydrolase; Membrane protein, GPI anchor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 6q23.2 Cellular Component: integral to membrane Molecular Function: pantetheine hydrolase activity Biological Process: acute inflammatory response; biotin metabolic process; cell motility; cell-cell adhesion; central nervous system development; chronic inflammatory response; inflammatory response; innate immune response; pantothenate metabolic process; positive regulation of T cell differentiation in the thymus; response to oxidative stress
Research Articles on VNN1	**1.** serum pantetheinas, encoded by the VNN1 gene, level regulates erythrocyte life span and modulates the risk of developing complicated malaria.
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