

Anti-VNN1 Picoband Antibody

Catalog # ABO11724

Product Information

Application	WB
Primary Accession	O95497
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Pantetheinase(VNN1) detection. Tested with WB in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	8876
Other Names	Pantetheinase, 3.5.1.92, Pantetheine hydrolase, Tiff66, Vascular non-inflammatory molecule 1, Vanin-1, VNN1
Calculated MW	57012
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cell membrane ; Lipid-anchor, GPI-anchor .
Tissue Specificity	Widely expressed with higher expression in spleen, kidney and blood. Overexpressed in lesional psoriatic skin. .
Source	Eukaryota
Protein Name	Pantetheinase
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived human VNN1 recombinant protein (Position: Q22-K192). Human VNN1 shares 82.2% amino acid (aa) sequence identity with mouse VNN1.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated

freezing and thawing.

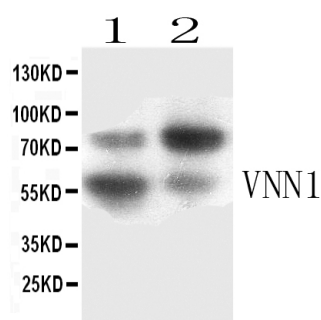
Protein Information

Name	VNN1
Function	Amidohydrolase that hydrolyzes specifically one of the carboamide linkages in D-pantetheine thus recycling pantothenic acid (vitamin B5) and releasing cysteamine.
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor
Tissue Location	Widely expressed with higher expression in spleen, kidney and blood. Overexpressed in lesional psoriatic skin

Background

Pantetheinase is an enzyme that in humans is encoded by the VNN1 gene. 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.

Images



Western blot analysis of VNN1 expression in SKOV3 whole cell lysates (lane 3) and HELA whole cell lysates (lane 4). VNN1 at 57KD was detected using rabbit anti-VNN1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11724) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

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