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

CANT1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8822a

Product Information

Application	WB, FC, E
Primary Accession	Q8WVQ1
Reactivity	Human
Predicted	Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23532
Calculated MW	44840
Antigen Region	1-30

Additional Information

Gene ID	124583
Other Names	Soluble calcium-activated nucleotidase 1, SCAN-1, Apyrase homolog, Putative MAPK-activating protein PM09, Putative NF-kappa-B-activating protein 107, CANT1, SHAPY
Target/Specificity	This CANT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human CANT1.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CANT1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CANT1 (HGNC:19721)
Function	Calcium-dependent nucleotidase with a preference for ribonucleosides diphosphate UDP, GDP and IDP, while having very low activity towards ADP

	and CDP (PubMed:12234496, PubMed:15006348, PubMed:15248776, PubMed:16835225). In vitro, it can also act with low or negligible efficiency on ribonucletides triphosphate UTP, GTP, ITP, ATP and CTP (PubMed:12234496, PubMed:15248776). Does not hydrolyze AMP and GMP (PubMed:12234496). Involved in proteoglycan synthesis (PubMed:22539336).
Cellular Location	Endoplasmic reticulum membrane; Single-pass type II membrane protein. Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Cell membrane. Note=Processed form: Secreted
Tissue Location	Widely expressed..

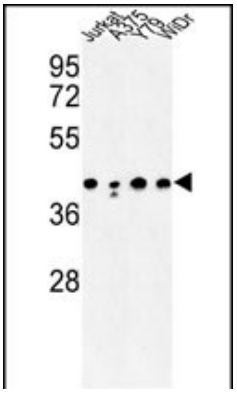
Background

CANT1 belongs to the apyrase family. It functions as a calcium-dependent nucleotidase with a preference for UDP.

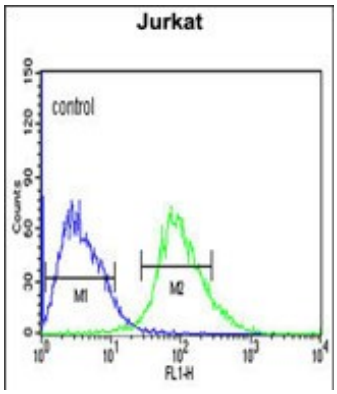
References

Dai,J., et.al., Cell 116 (5), 649-659 (2004)

Images



Western blot analysis of CANT1 Antibody (N-term) (Cat. #AP8822a) in Jurkat, A375, Y79, WiDr cell line lysates (35ug/lane). CANT1 (arrow) was detected using the purified Pab.



CANT1 Antibody (N-term) (Cat. #AP8822a) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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