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

VAMP4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5523

Product Information

Application	IHC-P, WB
Primary Accession	O75379
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16397
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	8674
Antigen Region	31-65
Other Names	Vesicle-associated membrane protein 4, VAMP-4, VAMP4
Dilution	IHC-P~~1:100~500 WB~~1:1000
Target/Specificity	This VAMP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 16-65 amino acids from the Central region of human VAMP4.
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	VAMP4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

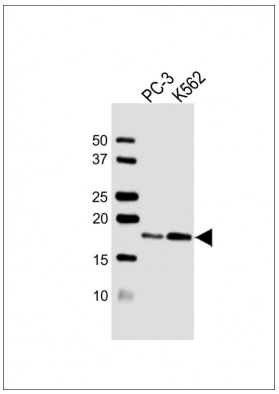
Name	VAMP4 (HGNC:12645)
Function	SNAREs (soluble N-ethylmaleimide-sensitive factor-attachment protein receptors) are essential proteins for intracellular membrane fusion. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four-helix bundle whose assembly releases energy that

drives membrane fusion. The core SNARE complex typically consists of four alpha-helical domains, three from target membrane SNAREs (t-SNAREs) and one from a vesicle SNARE (v- SNARE) (PubMed:10036234). VAMP4 is a v-SNARE that functions in vesicle fusion with the plasma membrane. In skeletal muscle satellite cells, VAMP4 cooperates with its cognate SNAREs STX11 and SNAP23 to facilitate CD36 vesicular transport from endosomes to the plasma membrane, an essential step in muscle regeneration (By similarity).

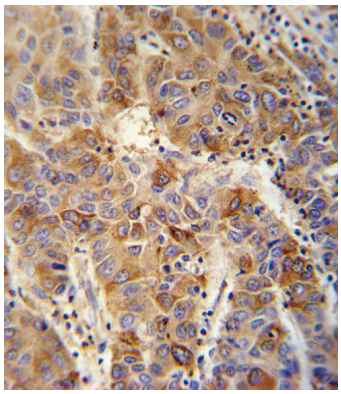
Cellular Location

Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:O70480}; Single-pass type IV membrane protein. Note=Associated with trans Golgi network (TGN) and newly formed immature secretory granules (ISG). Not found on the mature secretory organelles.

Images



All lanes : Anti-VAMP4 Antibody (Center) at 1:1000 dilution Lane 1: PC-3 whole cell lysate Lane 2: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 16 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



VAMP4 antibody (Center) (Cat. #AW5523) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the VAMP4 antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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