For Research Use Only

VAMP7/TI-VAMP Polyclonal antibody

Catalog Number:22268-1-AP Featured Product 7 Publications

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Basic Information

Catalog Number:
22268-1-AP

Size:
150ul , Concentration: 900 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_005638

GeneID (NCBI):
6845

UNIPROT ID:
P51809

Full Name:
vesicle-associated membrane protein 7

Calculated MW:
25 kDa

Observed MW:
20-25 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:8000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IF, Blocking

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : human liver tissue, human small intestine tissue

IF/ICC : HepG2 cells,

Background Information

VAMP7, also named SYBL1 and TI-VAMP, belongs to the synaptobrevin family. It is involved in the targeting and/or fusion of transport vesicles to their target membrane during the transport of proteins from the early endosome to the lysosome. VAMP7 is required for heterotypic fusion of late endosomes with lysosomes and homotypic lysosomal fusion. It is necessary for calcium-regulated lysosomal exocytosis. VAMP7 is involved in the export of chylomicrons from the endoplasmic reticulum to the cis Golgi. It is required for exocytosis of mediators during eosinophil and neutrophil degranulation, and target cell killing by natural killer cells. It is also required for focal exocytosis of late endocytic vesicles during phagosome formation. The antibody is specific to VAMP7.

Notable Publications

Author	Pubmed ID	Journal	Application
Jia-min Yan	34747299	Autophagy	WB
Jia Liu	31062916	Small	WB
Dongdong Wang	32042550	Adv Sci (Weinh)	Blocking

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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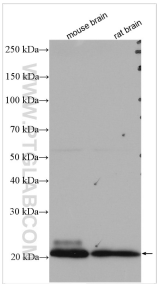
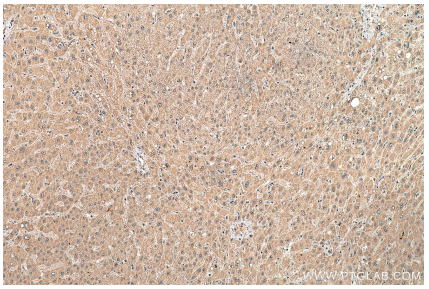
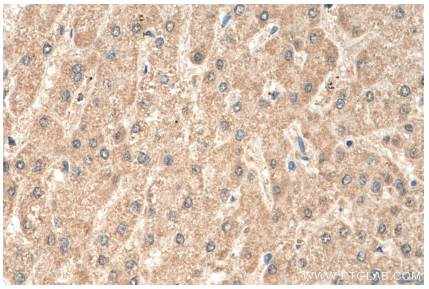
Selected Validation Data



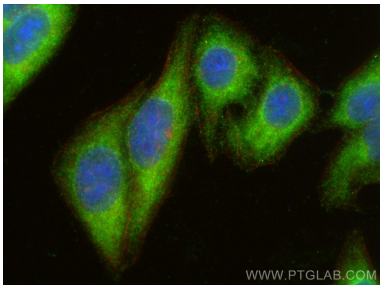
Various lysates were subjected to SDS PAGE followed by western blot with 22268-1-AP (VAMP7/TI-VAMP antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



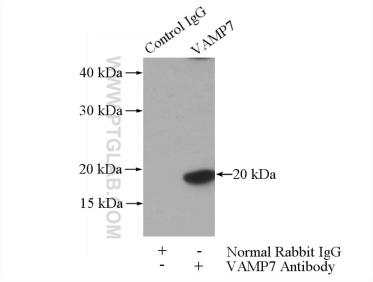
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 22268-1-AP (VAMP7/TI-VAMP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 22268-1-AP (VAMP7/TI-VAMP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using VAMP7/TI-VAMP antibody (22268-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).



IP result of anti-VAMP7/TI-VAMP (IP:22268-1-AP, 4ug; Detection:22268-1-AP 1:1000) with mouse brain tissue lysate 3440ug.