

Rabbit VAMP4 Polyclonal Antibody | anti-VAMP4 antibody

Anti-VAMP4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125752	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

VAMP4; Polyclonal Antibody; Anti-VAMP4 Antibody; Vesicle-associated membrane protein 4; VAMP-4; vesicle associated membrane protein 4; anti-VAMP4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for VAMP4 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-VAMP4 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human VAMP4 recombinant protein (Position: M1-A118).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Figure 5. IHC analysis of VAMP4 using anti-VAMP4 antibody (AAA125752). VAMP4 was detected in paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-VAMP4 Antibody (AAA125752) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



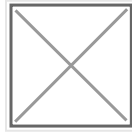
IHC (Immunohistochemistry)

Figure 4. IHC analysis of VAMP4 using anti-VAMP4 antibody (AAA125752). VAMP4 was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-VAMP4 Antibody (AAA125752) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



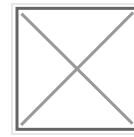
IHC (Immunohistochemisry)

Figure 3. IHC analysis of VAMP4 using anti-VAMP4 antibody (AAA125752).VAMP4 was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-VAMP4 Antibody (AAA125752) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of VAMP4 using anti-VAMP4 antibody (AAA125752).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: human U87 whole cell lysatesLane 2: human T47D whole cell lysatesLane 3: human K562 whole cell lysatesLane 4: human PC-3 whole cell lysatesLane 5: human THP-1 whole cell lysatesLane 6: human HEK293 whole cell lysatesLane 7: human HL-60 whole cell lysatesLane 8: rat brain tissue lysatesLane 9: mouse brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-VAMP4 antigen affinity purified polyclonal antibody (Catalog # AAA125752) at 0. 25 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for VAMP4 at approximately 16KD. The expected band size for VAMP4 is at 16KD.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of PC-3 cells using anti-VAMP4 antibody (AAA125752).Overlay histogram showing PC-3 cells stained with AAA125752 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-VAMP4 Antibody (AAA125752, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL INFORMATION

Related Product Information for anti-VAMP4 antibody	Vesicle-associated membrane protein 4 is a protein that in humans is encoded by the VAMP4 gene. Synaptobrevins/VAMPs, syntaxins, and the 25-kD synaptosomal-associated protein SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane. The protein encoded by this gene is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. This protein may play a role in trans-Golgi network-to-endosome transport.
References	- Advani, R. J., Bae, H. -R., Bock, J. B., Chao, D. S., Doung, Y. -C., Prekeris, R., Yoo, J. -S., Scheller, R. H. Seven novel mammalian SNARE proteins localize to distinct membrane compartments. J. Biol. Chem. 273: 10317-10324, 1998. - Scott, A. F. Personal Communication. Baltimore, Md. 5/6/2002. - Steegmaier, M., Klumperman, J., Foletti, D. L., Yoo, J. -S., Scheller, R. H. Vesicle-associated membrane protein 4 is implicated in trans-Golgi network vesicle trafficking. Molec. Biol. Cell 10: 1957-1972, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20141854
NCBI GeneID	8674
UniProt Accession #	O75379 ; Q96IY9 ; Q96J20 ; Q9UEL7 ; A2IDD8
Molecular Weight	141
NCBI Official Full Name	Vesicle-associated membrane protein 4
NCBI Official Synonym Full Names	vesicle-associated membrane protein 4
NCBI Official Symbol	VAMP4

NCBI Official Synonym Symbols	VAMP-4; VAMP24
NCBI Protein Information	vesicle-associated membrane protein 4
UniProt Protein Name	Vesicle-associated membrane protein 4
UniProt Gene Name	VAMP4
UniProt Synonym Gene Names	VAMP-4
UniProt Entry Name	VAMP4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/vamp4-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125752>