

Rabbit Amphiphysin/AMPH Polyclonal Antibody | anti-AMPH antibody

Anti-Amphiphysin/AMPH Antibody Picoband

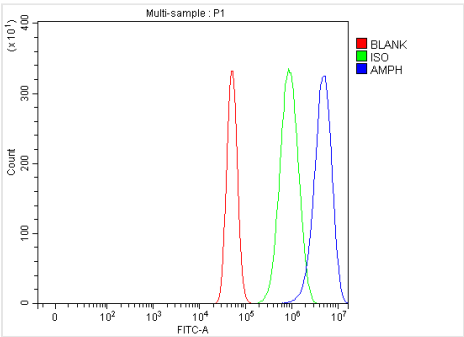
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127110	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

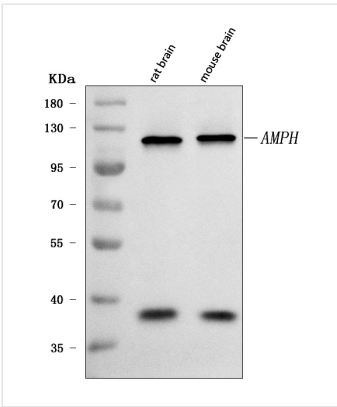
Amphiphysin/AMPH; Polyclonal Antibody; Anti-Amphiphysin/AMPH Antibody Picoband; Neuronal acetylcholine receptor subunit alpha-5; CHRNA5; NACHRA5; anti-AMPH antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-AMPH antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human Amphiphysin/AMPH recombinant protein (Position: R58-K683).
Subcellular Localization	Cell junction, synapse, postsynaptic cell membrane, Multi-pass membrane protein, Cell membrane, Multi-pass membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of U87 cells using anti-Amphiphysin/AMPH antibody (AAA127110). Overlay histogram showing U87 cells stained with AAA127110 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Amphiphysin/AMPH Antibody (AAA127110, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)
Figure 1. Western blot analysis of Amphiphysin/AMPH using anti-Amphiphysin/AMPH antibody (AAA127110). 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 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-Amphiphysin/AMPH antigen affinity purified polyclonal antibody (#AAA127110) at 0.5ug/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 Amphiphysin/AMPH at approximately 115-125 kDa. The expected band size for Amphiphysin/AMPH is at 76 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-AMPH antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-AMPH antibody	Primary Antibodies; Ligand-Gated Ion Channels; Neuroscience; Neurotransmission; Receptors/Channels
References	1. David, C., Solimena, M., De Camilli, P. Autoimmunity in stiff-man syndrome with breast cancer is targeted to the C-terminal region of human amphiphysin, a protein similar to the yeast proteins, Rvs167 and Rvs161. FEBS Lett. 351: 73-79, 1994. 2. De Camilli, P., Thomas, A., Cofield, R., Folli, F., Lichte, B., Piccolo, G., Meinck, H.-M., Austoni, M., Fassetta, G., Bottazzo, G., Bates, D., Cartledge, N., Solimena, M., Kilimann, M. W. The synaptic vesicle-associated protein amphiphysin is the 128-kD autoantigen of stiff-man syndrome with breast cancer. J. Exp. Med. 178: 2219-2223, 1993. 3. Di Paolo, G., Sankaranarayanan, S., Wenk, M. R., Daniell, L., Perucco, E., Caldarone, B. J., Flavell, R., Picciotto, M. R., Ryan, T. A., Cremona, O., De Camilli, P. Decreased synaptic vesicle recycling efficiency and cognitive deficits in amphiphysin 1 knockout mice. Neuron 33: 789-804, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502081
NCBI GeneID	273
NCBI Accession #	NP_001626.1
NCBI GenBank Nucleotide #	NM_001635.3
UniProt Accession #	P49418; O43538; Q75MJ8; Q75MK5; Q75MM3; Q8N4G0; A4D1X8; A4D1X9
Molecular Weight	76,257 Da
NCBI Official Full Name	amphiphysin isoform 1
NCBI Official Synonym Full Names	amphiphysin

NCBI Official Symbol	AMPH
NCBI Official Synonym Symbols	AMPH1
NCBI Protein Information	amphiphysin; amphiphysin I; amphiphysin (Stiff-Mann syndrome with breast cancer 128kD autoantigen)
UniProt Protein Name	Amphiphysin
UniProt Gene Name	AMPH
UniProt Synonym Gene Names	AMPH1
UniProt Entry Name	AMPH_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/amphiphysin-amph-antibody-flow-cytometry-western-blot-elisa/127110>