

Rabbit Synaptogyrin 3/SYNGR3 Polyclonal Antibody | anti-SYNGR3 antibody

Anti-Synaptogyrin 3/SYNGR3 Antibody Picoband

CATALOG # AAA127845	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Synaptogyrin 3/SYNGR3; Polyclonal Antibody; Anti-Synaptogyrin 3/SYNGR3 Antibody Picoband; DAP3 binding cell death enhancer 1; transmembrane protein 199; Transmembrane protein 199; TMEM199; C17orf32; anti-SYNGR3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
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-SYNGR3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human Synaptogyrin 3/SYNGR3 recombinant protein (Position: N45-Y229).
Subcellular Localization	Endoplasmic reticulum membrane. Multi-pass membrane protein. COPI-coated vesicle membrane. Multi-pass membrane protein. Endoplasmic reticulum-Golgi intermediate compartment 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	Accessory component of the proton-transporting vacuolar (V)-ATPase protein pump involved in intracellular iron homeostasis. In aerobic conditions, required for intracellular iron homeostasis, thus triggering the activity of Fe ²⁺ prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation. Necessary for endolysosomal acidification and lysosomal degradation. May be involved in Golgi homeostasis.
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.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of Synaptogyrin 3/SYNGR3 using anti-Synaptogyrin 3/SYNGR3 antibody (AAA127845).Synaptogyrin 3/SYNGR3 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Synaptogyrin 3/SYNGR3 Antibody (AAA127845) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of Synaptogyrin 3/SYNGR3 using anti-Synaptogyrin 3/SYNGR3 antibody (AAA127845).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-Synaptogyrin 3/SYNGR3 antigen affinity purified polyclonal antibody (#AAA127845) 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 Synaptogyrin 3/SYNGR3 at approximately 24 kDa. The expected band size for Synaptogyrin 3/SYNGR3 is at 25 kDa.



IHC (Immunohiostchemistry)
Figure 2. IHC analysis of Synaptogyrin 3/SYNGR3 using anti-Synaptogyrin 3/SYNGR3 antibody (AAA127845).Synaptogyrin 3/SYNGR3 was detected in a paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Synaptogyrin 3/SYNGR3 Antibody (AAA127845) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-SYNGR3 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-SYNGR3 antibody	Primary Antibodies; Cell Biology
References	1. Kedra, D., Pan, H.-Q., Seroussi, E., Fransson, I., Guilbaud, C., Collins, J. E., Dunham, I., Blennow, E., Roe, B. A., Piehl, F., Dumanski, J. P. Characterization of the human synaptogyrin gene family. Hum. Genet. 103: 131-141, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6631112
NCBI GeneID	9143
NCBI Accession #	NP_004200
NCBI GenBank Nucleotide #	NM_004209.5
UniProt Accession #	O43761; B2R9S0
Molecular Weight	24,555 Da
NCBI Official Full Name	synaptogyrin-3
NCBI Official Synonym Full Names	synaptogyrin 3

NCBI Official Symbol	SYNGR3
NCBI Protein Information	synaptogyrin-3
UniProt Protein Name	Synaptogyrin-3
UniProt Gene Name	SYNGR3
UniProt Entry Name	SNG3_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/synaptogyrin-3-syng3-antibody-immunohistochemistry-western-blot-elisa/127845>