

Rabbit anti-Human SYNPO2 Polyclonal Antibody | anti-SYNPO2 antibody

Anti-SYNPO2 Antibody Picoband

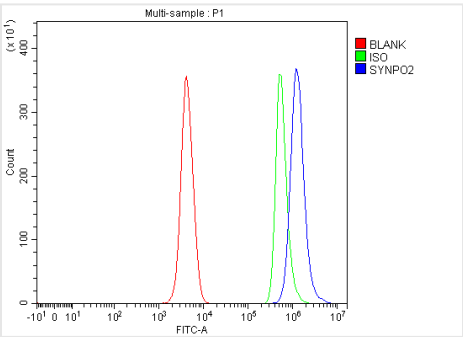
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127462	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

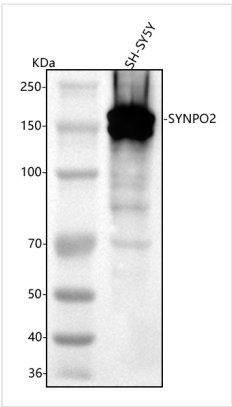
SYNPO2; Polyclonal Antibody; Anti-SYNPO2 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-SYNPO2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-SYNPO2 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen	E coli-derived human SYNPO2 recombinant protein (Position: L104-R1009). Human SYNPO2 shares 79.6% and 78.6% amino acid (aa) sequence identity with mouse and rat SYNPO2, respectively.
Subcellular Localization	Cytoplasm, Nucleus
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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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 SH-SY5Y cells using anti-SYNPO2 antibody (AAA127462). Overlay histogram showing SH-SY5Y cells stained with AAA127462 (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-SYNPO2 Antibody (AAA127462, 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 (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of SYNPO2 using anti-SYNPO2 antibody (AAA127462). 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: human SH-SY5Y whole cell 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-SYNPO2 antigen affinity purified polyclonal antibody (#AAA127462) at 0.25ug/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 SYNPO2 at approximately 160 kDa. The expected band size for SYNPO2 is at 118 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SYNPO2 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-SYNPO2 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Gao, J., Zhang, H. P., Sun, Y. H., Guo, W. Z., Li, J., Tang, H. W., ... & Zhang, S. J. (2020). Synaptopodin-2 promotes hepatocellular carcinoma metastasis via calcineurin-induced nuclear-cytoplasmic translocation. Cancer letters, 482, 8-18.2. Ma, L., Zhang, W., Ding, Z., Wu, S. G., Jin, Y., Jiang, N., ... & Chen, X. (2017). Association of a common variant of SYNPO2 gene with increased risk of serous epithelial ovarian cancer. Tumor Biology, 39(2), 1010428317691185.3. Pompas-Veganzones, N., Sandonis, V., Perez-Lanzac, A., Beltran, M., Beardo, P., Juárez, A., ... & Sanchez-Carbayo, M. (2016). Myopodin methylation is a prognostic biomarker and predicts antiangiogenic response in advanced kidney cancer. Tumor Biology, 37, 14301-14310.

NCBI AND UNIPROT INFORMATION

NCBI GI #	193083183
NCBI GeneID	171024
NCBI Accession #	NP_597734
NCBI GenBank Nucleotide #	NM_133477.2
UniProt Accession #	Q9UMS6; Q9UK89; B2RWP6; B2Y8J9; S5XAM4
Molecular Weight	133,081 Da
NCBI Official Full Name	synaptopodin-2 isoform a
NCBI Official Synonym Full Names	synaptopodin 2
NCBI Official Symbol	SYNPO2

NCBI Protein Information	synaptopodin-2; myopodin; genethonin-2
UniProt Protein Name	Synaptopodin-2
UniProt Gene Name	SYNP02
UniProt Entry Name	SYNP2_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/synpo2-antibody-flow-cytometry-western-blot-elisa/127462>