

Rabbit SRGAP3 Polyclonal Antibody | anti-SRGAP3 antibody

Anti-SRGAP3 Antibody Picoband

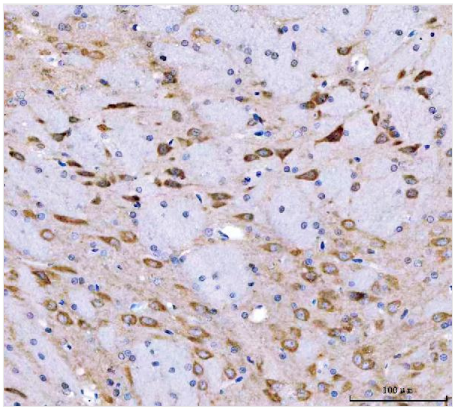
CATALOG # AAA127342	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

SRGAP3; Polyclonal Antibody; Anti-SRGAP3 Antibody Picoband; Long-chain-fatty-acid--CoA ligase 3; solute carrier family 25 member 1; Tricarboxylate transport protein; mitochondrial; Citrate transport protein; CTP; Solute carrier family 25 member 1; Tricarboxylate carrier protein; SLC25A1; SLC20A3; anti-SRGAP3 antibody

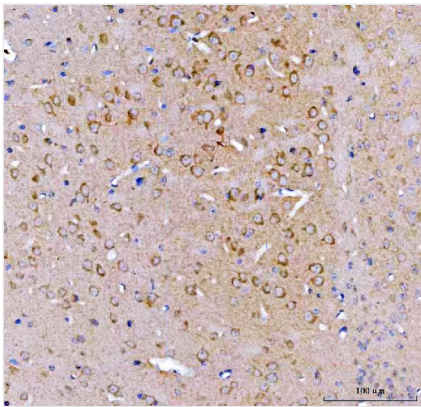
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in brain. Detected at very much lower levels in heart, lung, placenta and skeletal muscle. Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia.
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-SRGAP3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human SRGAP3 recombinant protein (Position: L824-R1067).
Subcellular Localization	Mitochondrion inner 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	Citrate transporter that mediates the exchange of mitochondrial citrate for cytosolic malate. Also able to mediate the exchange of citrate for isocitrate, phosphoenolpyruvate, cis- but not trans-aconitate and to a lesser extend maleate and succinate. Important for the bioenergetics of hepatic cells as it provides a carbon source for fatty acid and sterol biosyntheses, and NAD ⁺ for the glycolytic pathway. Required for proper neuromuscular junction formation (Probable).
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.



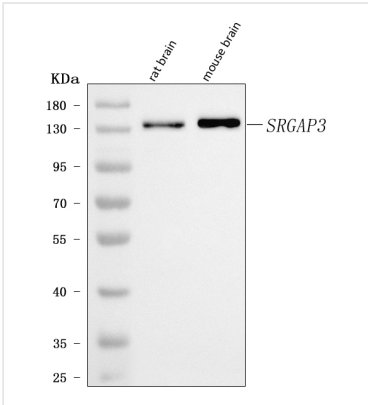
IHC (Immunohistochemistry)

Figure 3. IHC analysis of SRGAP3 using anti-SRGAP3 antibody (AAA127342).SRGAP3 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-SRGAP3 Antibody (AAA127342) 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.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of SRGAP3 using anti-SRGAP3 antibody (AAA127342).SRGAP3 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-SRGAP3 Antibody (AAA127342) 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 SRGAP3 using anti-SRGAP3 antibody (AAA127342).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-SRGAP3 antigen affinity purified polyclonal antibody (#AAA127342) 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 SRGAP3 at approximately 140 kDa. The expected band size for SRGAP3 is at 125 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SRGAP3 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-SRGAP3 antibody	Primary Antibodies; Cancer; Cell Biology; Metabolic Signaling Pathways; Metabolism; Pathways and Processes; Signal Transduction

References	1. Endris, V., Wogatzky, B., Leimer, U., Bartsch, D., Zatyka, M., Latif, F., Maher, E. R., Tariverdian, G., Kirsch, S., Karch, D., Rappold, G. A. The novel Rho-GTPase activating gene MEGAP/srGAP3 has a putative role in severe mental retardation. Proc. Nat. Acad. Sci. 99: 11754-11759, 2002.2. Ishikawa, K., Nagase, T., Nakajima, D., Seki, N., Ohira, M., Miyajima, N., Tanaka, A., Kotani, H., Nomura, N., Ohara, O. Prediction of the coding sequences of unidentified human genes. VIII. 78 new cDNA clones from brain which code for large proteins in vitro. DNA Res. 4: 307-313, 1997. 3. Jones, D. T. W., Kocialkowski, S., Liu, L., Pearson, D. M., Ichimura, K., Collins, V. P. Oncogenic RAF1 rearrangement and a novel BRAF mutation as alternatives to KIAA1549:BRAF fusion in activating the MAPK pathway in pilocytic astrocytoma. Oncogene 28: 2119-2123, 2009.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	387942365
NCBI GeneID	9901
NCBI Accession #	NM_014850.3
NCBI GenBank Nucleotide #	NM_014850
UniProt Accession #	O43295; Q8IX13; Q8IZV8
Molecular Weight	~128 kDa
NCBI Official Full Name	Homo sapiens SLIT-ROBO Rho GTPase activating protein 3 (SRGAP3), transcript variant 1, mRNA
NCBI Official Synonym Full Names	SLIT-ROBO Rho GTPase activating protein 3
NCBI Official Symbol	SRGAP3
NCBI Official Synonym Symbols	WRP; MEGAP; SRGAP2; ARHGAP14
NCBI Protein Information	SLIT-ROBO Rho GTPase-activating protein 3
UniProt Protein Name	SLIT-ROBO Rho GTPase-activating protein 3
UniProt Gene Name	SRGAP3
UniProt Synonym Gene Names	ARHGAP14; KIAA0411; KIAA1156; MEGAP; SRGAP2; srGAP3; WRP

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.