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SORCS2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54688

Specification

SORCS2 Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q96PQ0
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**128152**

SORCS2 Polyclonal Antibody - Additional Information

Gene ID 57537

Other Names
VPS10 domain-containing receptor SorCS2, SorCS2 122 kDa chain, SorCS2 104 kDa chain, SorCS2 18 kDa chain, SORCS2, KIAA1329

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

SORCS2 Polyclonal Antibody - Protein Information

Name SORCS2

Synonyms KIAA1329

Function
The heterodimer formed by NGFR and SORCS2 functions as receptor for the precursor forms of NGF (proNGF) and BDNF (proBDNF) (PubMed:22155786, PubMed:24908487). ProNGF and proBDNF binding both promote axon growth cone collapse (in vitro) (PubMed:22155786, PubMed:24908487). Plays a role in the regulation of dendritic spine density in hippocampus neurons (By similarity). Required for normal neurite branching and extension in response to BDNF (PubMed:27457814). Plays a role in BDNF-dependent hippocampal synaptic plasticity. Together with NGFR and NTRK2, is required both for BDNF-mediated synaptic long-term depression and long-term potentiation (PubMed:27457814). ProNGF

binding promotes dissociation of TRIO from the heterodimer, which leads to inactivation of RAC1 and/or RAC2 and subsequent reorganization of the actin cytoskeleton (PubMed:22155786). Together with the retromer complex subunit VPS35, required for normal expression of GRIN2A at synapses and dendritic cell membranes. Required for normal expression of the amino acid transporter SLC1A1 at the cell membrane, and thereby contributes to protect cells against oxidative stress (By similarity).

Cellular Location
Cell membrane; Single-pass type I membrane protein. Cell projection {ECO:0000250|UniProtKB:Q9EPR5}. Cytoplasmic vesicle membrane; Single-pass type I membrane protein. Early endosome membrane {ECO:0000250|UniProtKB:Q9EPR5}. Recycling endosome membrane {ECO:0000250|UniProtKB:Q9EPR5}. Synapse, synaptosome {ECO:0000250|UniProtKB:Q9EPR5}. Perikaryon. Cell projection, dendrite. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q9EPR5}. Postsynaptic density membrane {ECO:0000250|UniProtKB:Q9EPR5}

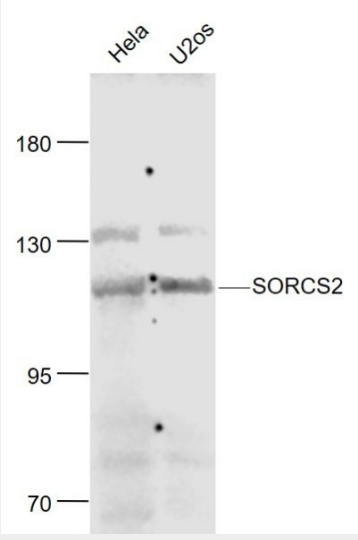
Tissue Location
Detected on neurons in the caudate region (PubMed:28469074). Detected on neurons in the hippocampus (at protein level) (PubMed:30840898). Highly expressed in brain and kidney Detected at low levels in heart, liver, small intestine, skeletal muscle and thymus (PubMed:11499680).

SORCS2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SORCS2 Polyclonal Antibody - Images



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Sample:
Hela(Human) Cell Lysate at 30 ug
U2os(Human) Cell Lysate at 30 ug
Primary: Anti- SORCS2 (bs-11963R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 123 kD
Observed band size: 123 kD