

RUSC1 Rabbit pAb

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Catalog # AP55238

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BVN2
Reactivity	Human, Mouse
Predicted	Rat, Pig, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	96444
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RUSC1
Epitope Specificity	281-380/902
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus. Note=Translocated to the nuclear envelope upon stimulation with NGF.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	RUSC1 is a 902 amino acid protein that contains a RUN domain and a SH3 domain. RUSC1's RUN domain is necessary for NGF induced nuclear redistribution. RUSC1 is a putative signaling adapter which may play a role in neuronal differentiation. RUSC1 seems to be involved in signaling pathways that are regulated by the prolonged activation of MAPK. RUSC2 (RUN and SH3 domain containing 2), also known as Iporin, is a 1,516 amino acid cytoplasmic protein that is widely expressed, with highest levels in brain and testis. The RUN domain of RUSC2 is required for interaction with Rab 1A, Rab 1B and GM130. It is thought that RUSC2 may possibly function as a connector between endoplasmic reticulum (ER) derived vesicle targets triggered by the Rab 1 GTPases and a signaling pathway regulated by molecules containing SH3 and/or poly-proline regions. RUSC2 also consists of a SH3 domain, suggesting a role in protein-protein interactions.

Additional Information

Gene ID	23623
Other Names	AP-4 complex accessory subunit RUSC1, New molecule containing SH3 at the carboxy-terminus, Nesca, RUN and SH3 domain-containing protein 1, RUSC1 {ECO:0000303 PubMed:30262884, ECO:0000312 HGNC:HGNC:17153}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage Store at -20 °C 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 °C.

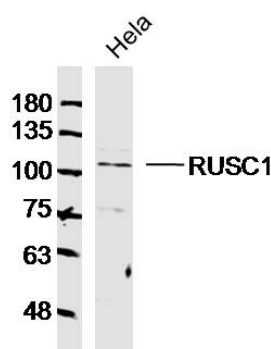
Protein Information

Name	RUSC1 {ECO:0000303 PubMed:30262884, ECO:0000312 HGNC:HGNC:17153}
Function	Associates with the adapter-like complex 4 (AP-4) and may therefore play a role in vesicular trafficking of proteins at the trans-Golgi network (PubMed: 30262884). Signaling adapter which plays a role in neuronal differentiation (PubMed: 15024033). Involved in regulation of NGF-dependent neurite outgrowth (PubMed: 15024033). May play a role in neuronal vesicular trafficking, specifically involving pre-synaptic membrane proteins (By similarity). Seems to be involved in signaling pathways that are regulated by the prolonged activation of MAPK (PubMed: 15024033). Can regulate the polyubiquitination of IKBKG and thus may be involved in regulation of the NF-kappa-B pathway (PubMed: 19365808).
Cellular Location	Cytoplasm. Nucleus. Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:Q8BG26}. Cytoplasmic vesicle {ECO:0000250 UniProtKB:Q8BG26}. Early endosome {ECO:0000250 UniProtKB:Q8BG26}. Postsynaptic density {ECO:0000250 UniProtKB:Q8BG26}. Golgi apparatus {ECO:0000250 UniProtKB:Q8BG26}. Note=Translocated to the nuclear envelope upon stimulation with NGF (PubMed:15024033). Associated with membranes and microtubules (By similarity) {ECO:0000250 UniProtKB:Q8BG26, ECO:0000269 PubMed:15024033}
Tissue Location	Predominantly expressed in brain.

Background

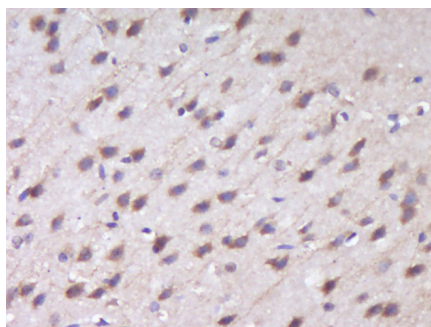
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Images



Sample: HeLa (Human) Cell Lysate at 40 ug
 Primary: Anti-RUSC1 (AP55238) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 96 kD
 Observed band size: 105 kD

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH 6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer



(normal goat serum) at 37°C for 30min; Antibody incubation with (RUSC1) Polyclonal Antibody, Unconjugated (AP55238) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.