

# RUSC2 Antibody

Catalog # ASC11430

## Product Information

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<b>Application</b>	WB, IF, E, IHC-P
<b>Primary Accession</b>	<a href="#">Q8N2Y8</a>
<b>Other Accession</b>	<a href="#">NP_055621</a> , <a href="#">55741719</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	161225
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	RUSC2 antibody can be used for detection of RUSC2 by Western blot at 1 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 5 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL.

## Additional Information

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<b>Gene ID</b>	9853
<b>Other Names</b>	Iporin, Interacting protein of Rab1, RUN and SH3 domain-containing protein 2, RUSC2, KIAA0375
<b>Target/Specificity</b>	RUSC2; At least three isoforms are known to exist; this antibody will detect all three isoforms. This antibody is predicted to not cross-react with RUSC1.
<b>Reconstitution &amp; Storage</b>	RUSC2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>Precautions</b>	RUSC2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	RUSC2 {ECO:0000303 PubMed:27612186, ECO:0000312 HGNC:HGNC:23625}
<b>Function</b>	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.
<b>Cellular Location</b>	Cytoplasm, cytosol. Cell membrane. Note=Cytosolic punctate distribution. Also observed in the perinuclear region. Colocalizes with RAB35 at the membrane protrusions of HEK293T cells (PubMed:30905672)

## Tissue Location

Widely expressed, with highest levels in brain and testis.

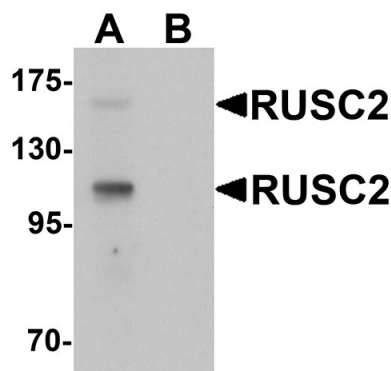
## Background

RUSC2 Antibody: RUSC2, also known as Iporin, shares with the related protein RUSC1 a common domain structure of RUN, leucine zipper and SH3 domain in addition to over 30% amino acid identity. RUSC2 is a rab1-interacting protein that also interacts with GM130, another rab1-interacting protein. RUSC2 interacts with specific rab1 isoforms with different rab-binding specificity. It has been suggested that RUSC2 may function as a link between the targeting of ER derived vesicles triggered by the rab1 GTPase and a signaling pathway composed of proteins containing SH3 and/or poly-proline regions.

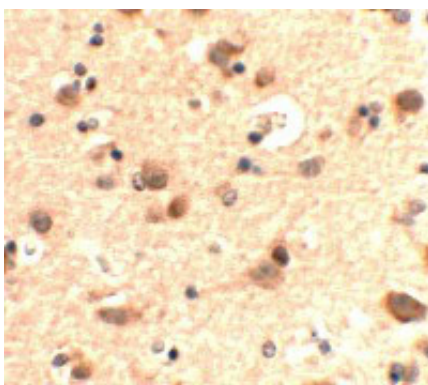
## References

Bayer M, Fischer J, Kremerskthen J, et al. Identification and characterization of Iporin as a novel interaction partner for rab1. *BMC Cell Biol.* 2005; 29:6:15.  
Kato M and Kato M. Characterization of RUSC1 and RUSC2 genes in silico. *Oncol. Rep.* 2004; 12:933-8  
Fukuda M, Kobayashi H, Ishibashi K, et al. Genome-wide investigation of the rab binding activity of RUN domains: development of a novel tool that specifically traps GTP-Rab35. *Cell Struct. Funct.* 2011; 36:155-70

## Images

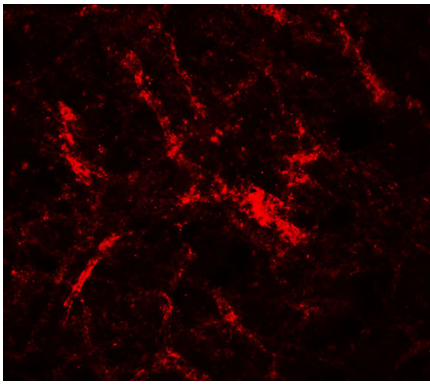


Western blot analysis of RUSC2 in SK-N-SH cell lysate with RUSC2 antibody at 1  $\mu\text{g/mL}$  in (A) the absence and (B) the presence of blocking peptide



Immunohistochemistry of RUSC2 in human brain tissue with RUSC2 antibody at 5  $\mu\text{g/mL}$ .

Immunofluorescence of RUSC2 in human brain tissue with RUSC2 antibody at 20  $\mu\text{g/mL}$ .



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