

**RUSC2 Antibody**  
**Catalog # ASC11430****Specification**

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**RUSC2 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q8N2Y8</a>
Other Accession	<a href="#">NP_055621</a> , <a href="#">55741719</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	RUSC2 antibody can be used for detection of RUSC2 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

**RUSC2 Antibody - Additional Information**Gene ID **9853****Target/Specificity**

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.

**Reconstitution & Storage**

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.

**Precautions**

RUSC2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**RUSC2 Antibody - Protein Information**

**Name** RUSC2 {ECO:0000303|PubMed:27612186, ECO:0000312|HGNC:HGNC:23625}

**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.

**Cellular Location**

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**

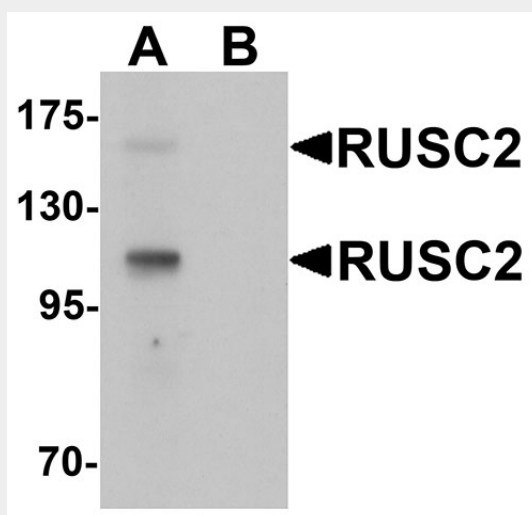
Widely expressed, with highest levels in brain and testis.

## RUSC2 Antibody - Protocols

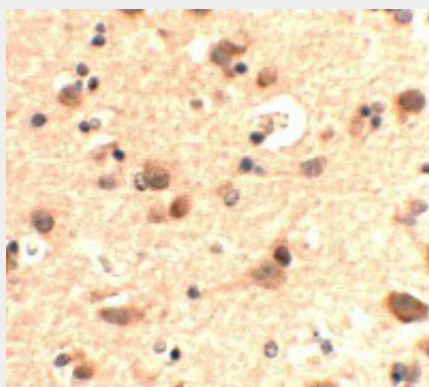
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

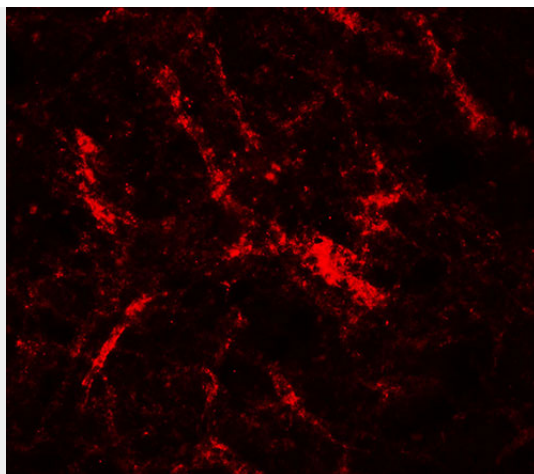
## RUSC2 Antibody - Images



Western blot analysis of RUSC2 in SK-N-SH cell lysate with RUSC2 antibody at 1  $\mu$ 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  $\mu$ g/mL.



Immunofluorescence of RUSC2 in human brain tissue with RUSC2 antibody at 20 µg/mL.

### **RUSC2 Antibody - 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.

### **RUSC2 Antibody - 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.  
Katoh M and Katoh 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