

**PACS2 Antibody**  
**Catalog # ASC11928****Specification**

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**PACS2 Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">Q86VP3</a>
Other Accession	<a href="#">NP_056012</a> , <a href="#">23241</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 98 kDa

## Application Notes

**Observed: 95 kDa KDa**  
**PACS2 antibody can be used for detection of PACS2 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL.**

**PACS2 Antibody - Additional Information**Gene ID **23241****Target/Specificity**

PACS2 antibody was raised against a 17 amino acid peptide near the center of human PACS2. <br><br>The immunogen is located within amino acids 330 - 380 of PACS2.

**Reconstitution & Storage**

PACS2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

**Precautions**

PACS2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**PACS2 Antibody - Protein Information**Name PACS2 ([HGNC:23794](#))

Synonyms KIAA0602, PACS1L

**Function**

Multifunctional sorting protein that controls the endoplasmic reticulum (ER)-mitochondria communication, including the apposition of mitochondria with the ER and ER homeostasis. In addition, in response to apoptotic inducer, translocates BIB to mitochondria, which initiates a sequence of events including the formation of mitochondrial truncated BID, the release of cytochrome c, the activation of caspase-3 thereby causing cell death. May also be involved in ion channel trafficking, directing acidic cluster-containing ion channels to distinct subcellular compartments.

**Cellular Location**

Endoplasmic reticulum. Mitochondrion

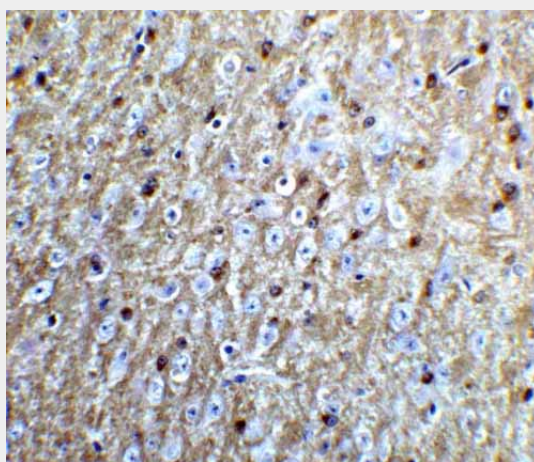
**Tissue Location**

Broadly expressed, with greatest levels in skeletal muscle followed by heart, brain, pancreas and testis

**PACS2 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](#)

**PACS2 Antibody - Images**

Immunohistochemistry of NogoA in mouse brain tissue with NogoA Antibody at 5 µg/mL.

**PACS2 Antibody - Background**

PACS2 (phosphofurin acidic cluster sorting protein-2), PACS1L, is an 889 amino acid protein that localizes to both the mitochondrion and the lumen of the endoplasmic reticulum (ER) and belongs to the PACS family (1,2). It is expressed in a broad range of tissues with highest expression in skeletal muscle, brain, heart, testis and pancreas (2,). PACS2 interacts with Polycystin-2 and BID and functions as a sorting protein that regulates mitochondria-ER communication and is thought to be involved in ion channel trafficking, specifically direct cluster-containing ion channels to distinct subcellular compartments (3-5).

**PACS2 Antibody - References**

Kottgen M, Benzing T, Simmen T, et al. Trafficking of TRPP2 by PACS proteins represents a novel mechanism of ion channel regulation. EMBO J. 2005; 24:705-16.

Brasacchio D, Noori T, House C, et al. A functional genomics screen identifies PCAF and ADA3 as

regulators of human granzyme B-mediated apoptosis and Bid cleavage. Cell Death Differ. 2014; 21:748-60.

Werneburg NW, Bronk SF, Guicciardi ME, et al. Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) protein-induced lysosomal translocation of proapoptotic effectors is mediated by phosphofurin acidic cluster sorting protein-2 (PACS-2). J. Biol. Chem. 2012; 287:24427-37.

You H and Thomas G. A homeostatic switch in PACS-2 links membrane traffic to TRAIL-induced apoptosis. Cell Cycle 2009; 8:2679-80.