

**Pannexin 1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57823**

**Specification**

**Pannexin 1 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q96RD7</a>
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Pannexin 1
Epitope Specificity	61-106/426
Isotype	IgG
<b>Purity</b>	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane. Cell junction > gap junction. Endoplasmic reticulum membrane.
SIMILARITY	Belongs to the pannexin family.
SUBUNIT	Homohexamer. Forms homomeric or PANX1/PANX2-heteromeric intercellular channels on coexpression in paired <i>Xenopus</i> oocytes (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

The protein encoded by this gene belongs to the innexin family. Innexin family members are the structural components of gap junctions. This protein and pannexin 2 are abundantly expressed in central nerve system (CNS) and are coexpressed in various neuronal populations. Studies in *Xenopus* oocytes suggest that this protein alone and in combination with pannexin 2 may form cell type-specific gap junctions with distinct properties. [provided by RefSeq, Jul 2008]

**Pannexin 1 Polyclonal Antibody - Additional Information**

**Gene ID 24145**

**Other Names**

Pannexin-1, PANX1 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=8599" target="\_blank">HGNC:8599</a>), MRS1

## Dilution

<span class ="dilution\_WB">WB~~1:1000</span><br \><span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class ="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class ="dilution\_IF">IF~~1:50~200</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_E">E~~N/A</span>

## 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.

## Pannexin 1 Polyclonal Antibody - Protein Information

Name PANX1 ([HGNC:8599](#))

### Function

Ion channel involved in a variety of physiological functions such as blood pressure regulation, apoptotic cell clearance and oogenesis (PubMed:<a href="http://www.uniprot.org/citations/15304325" target="\_blank">15304325</a>, PubMed:<a href="http://www.uniprot.org/citations/16908669" target="\_blank">16908669</a>, PubMed:<a href="http://www.uniprot.org/citations/20829356" target="\_blank">20829356</a>, PubMed:<a href="http://www.uniprot.org/citations/20944749" target="\_blank">20944749</a>, PubMed:<a href="http://www.uniprot.org/citations/30918116" target="\_blank">30918116</a>). Forms anion-selective channels with relatively low conductance and an order of permeabilities: nitrate>iodide>chloride>>aspartate=glutamate=gluconate (By similarity). Can release ATP upon activation through phosphorylation or cleavage at C-terminus (PubMed:<a href="http://www.uniprot.org/citations/32238926" target="\_blank">32238926</a>). May play a role as a Ca(2+)- leak channel to regulate ER Ca(2+) homeostasis (PubMed:<a href="http://www.uniprot.org/citations/16908669" target="\_blank">16908669</a>).

### Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00351}. Endoplasmic reticulum membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00351}

### Tissue Location

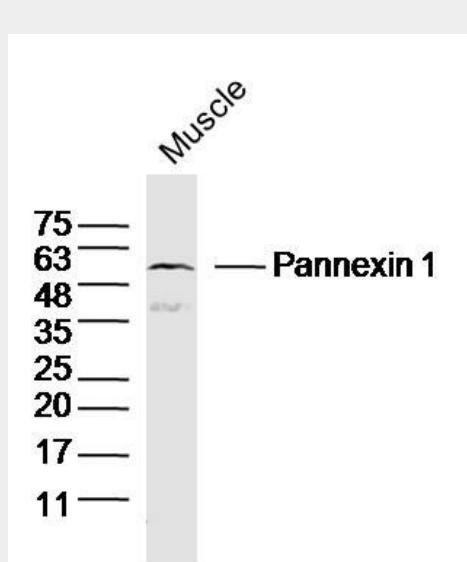
Widely expressed (PubMed:30918116). Highest expression is observed in oocytes and brain (PubMed:30918116). Detected at very low levels in sperm cells (PubMed:30918116)

## Pannexin 1 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 Cytometry](#)
- [Cell Culture](#)

## Pannexin 1 Polyclonal Antibody - Images



Sample: Muscle (Mouse) Lysate at 40 ug

Primary: Anti-Pannexin 1 (bs-21015R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48kD

Observed band size: 53kD