

PANX1 Antibody (NT)
Rabbit Polyclonal Antibody
Catalog # ABV10910**Specification**

PANX1 Antibody (NT) - Product Information

Application	WB
Primary Accession	Q96RD7
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG1
Calculated MW	48050

PANX1 Antibody (NT) - Additional Information**Gene ID** 24145Positive Control
Application & Usage**Western Blot: Human Ovary tissue lysate**
Western Blot: 1 - 2 µg/ml, ELISA. However,
the optimal conditions should be
determined individually.**Other Names**

Pannexin 1, Pannexin-1, PX1, MRS1, UNQ2529, UNQ2529/PRO6028

Target/Specificity

PANX1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (1 mg/ml) in 1X PBS containing 1 mg/ml BSA, 50% glycerol and less than 0.02% sodium azide, pH 7.4.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

PANX1 Antibody (NT) is for research use only and not for use in diagnostic or therapeutic procedures.

PANX1 Antibody (NT) - 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:15304325, PubMed:16908669, PubMed:20829356, PubMed:20944749, PubMed:30918116). 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:32238926). May play a role as a Ca(2+)- leak channel to regulate ER Ca(2+) homeostasis (PubMed:16908669).

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

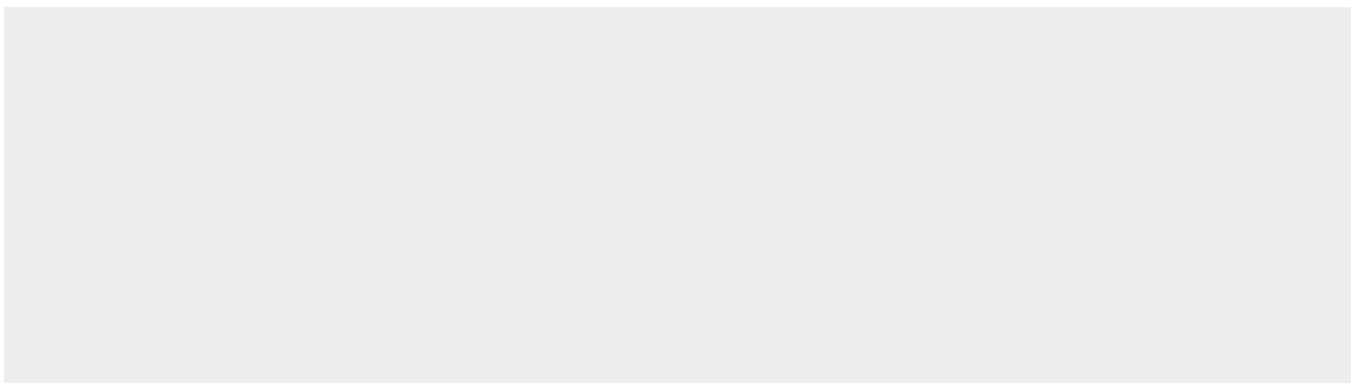
Widely expressed (PubMed:30918116). Highest expression is observed in oocytes and brain (PubMed:30918116). Detected at very low levels in sperm cells (PubMed:30918116)

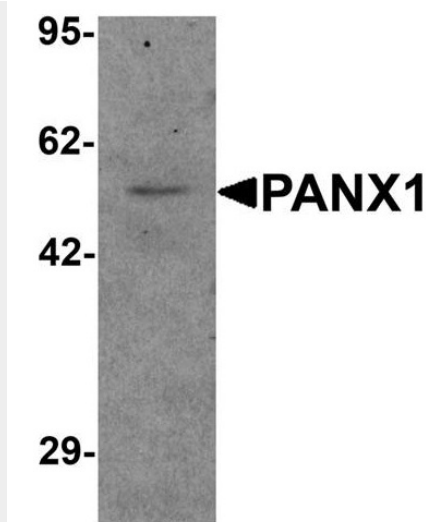
PANX1 Antibody (NT) - Protocols

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](#)

PANX1 Antibody (NT) - Images





Western blot analysis of PANX1 in human ovary tissue lysate with PANX1 antibody at 1 μ g/mL.

PANX1 Antibody (NT) - Background

The pannexin gene family encodes a second class of putative gap junction proteins and is highly conserved in invertebrates and mammals. Pannexins (Panx) are four-pass transmembrane proteins that oligomerize to form large pore ion and metabolite-permeable channels. Pannexin-1 (PANX1) and Pannexin-3 are closely related, while Pannexin-2 is a more distant relation. PANX1 is a transmembrane protein that forms a mechanosensitive ATP-permeable channel between adjacent cells and in the endoplasmic reticulum. PANX1 may play a role as a Ca²⁺-leak channel to regulate ER Ca²⁺ homeostasis and regulates neural stem and progenitor cell proliferation.