10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

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 24145

Positive Control	**Western Blot: Human Ovary tissue lysate**
Application & Usage	**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.

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PANX1 Antibody (NT) - Protein Information

Name PANX1 (HGNC:8599)

Synonyms MRS1

Function
Structural component of the gap junctions and the hemichannels involved in the ATP release and nucleotide permeation (PubMed:16908669, PubMed:20829356, PubMed:30918116). May play a role as a Ca(2+)-leak channel to regulate ER Ca(2+) homeostasis (PubMed:16908669). Plays a critical role in oogenesis (PubMed:30918116).

Cellular Location
Cell membrane; Multi-pass membrane protein {ECO:0000255|PROSITE-ProRule:PRU00351} Cell junction, gap junction. 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)

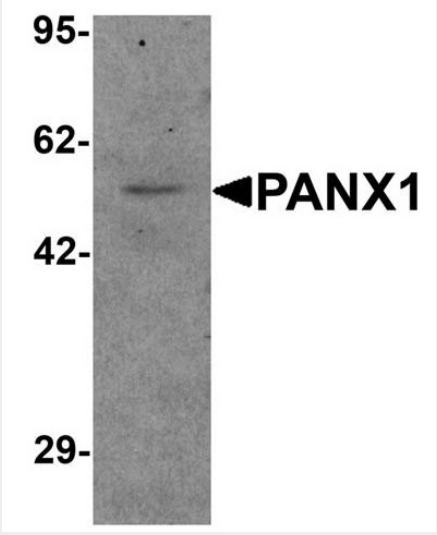
PANX1 Antibody (NT) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PANX1 Antibody (NT) - Images

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