

Datasheet for ABIN2775573  
**anti-PANX1 antibody (Middle Region)**

## 8 Images

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## Overview

Quantity:	100 µL
Target:	PANX1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Horse, Rabbit, Dog, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PANX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human PANX1
Sequence:	LGYYFSLSSL SDEFVCSIKS GILRNDSTVP DQFQCKLIAV GIFQLLSVIN
Predicted Reactivity:	Cow: 92%, Dog: 83%, Guinea Pig: 86%, Horse: 100%, Human: 100%, Mouse: 77%, Rabbit: 93%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against PANX1. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

## Target Details

Target:	PANX1
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## Target Details

Alternative Name:	PANX1 ( <a href="#">PANX1 Products</a> )
Background:	<p>PANX1 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 <i>Xenopus</i> oocytes suggest that this protein alone and in combination with pannexin 2 may form cell type-specific gap junctions with distinct properties. 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 <i>Xenopus</i> oocytes suggest that this protein alone and in combination with pannexin 2 may form cell type-specific gap junctions with distinct properties.</p> <p>Alias Symbols: MGC21309, MRS1, UNQ2529, PX1</p> <p>Protein Interaction Partner: GNAS, UBC, P2RX7,</p> <p>Protein Size: 426</p>
Molecular Weight:	47 kDa
Gene ID:	24145
NCBI Accession:	<a href="#">NM_015368</a> , <a href="#">NP_056183</a>
UniProt:	<a href="#">Q96RD7</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 426 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

## Handling

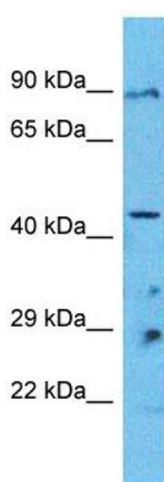
should be handled by trained staff only.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

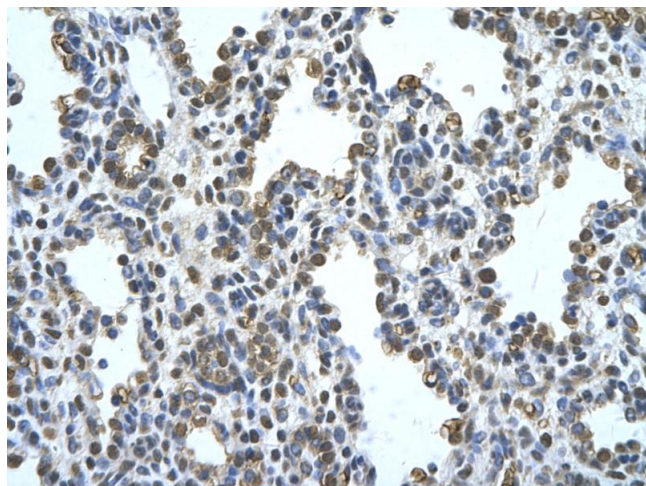
Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Images



### Western Blotting

**Image 1.** Host: Rabbit Target Name: PANX1 Sample Type: HeLa whole cell lysates Antibody Dilution: 1.0ug/ml PANX1 is supported by BioGPS gene expression data to be expressed in HeLa



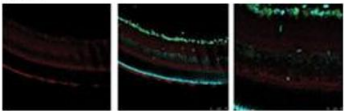
### Immunohistochemistry

**Image 2.** Paraffin Embedded Tissue: Human neural cell Cellular Data: Epithelial cells of renal tubule Antibody. Concentration: 4.0-8.0 ug/ml. Magnification: 400X

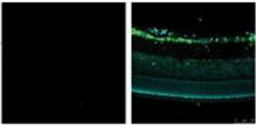
Immunohistochemistry

Image 3.

WT



KO



**PANX1 (ARP42783\_P050)**  
Immunohistochemistry

Sample: Mouse retina and  
Knockout mouse sample

Application data in forum

Submitted by:  
Dr. Valery Shestopalov  
University of Miami School of Medicine

**Legend**  
Magenta = DAPI for all nuclei  
Green = neuronal nuclei

**\*\*all PANX1 labeling is in the red channel**

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN2775573.