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## PANX1 Recombinant Monoclonal Antibody

Product Code	CSB-RA549607A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q96RD7
Immunogen	A synthesized peptide derived from Human PANX1
Species Reactivity	Human
Tested Applications	ELISA, IHC, IF, FC; Recommended dilution: IHC:1:50-1:200, IF:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	PANX1
Clone No.	28G5

Image



IHC image of CSB-RA549607A0HU diluted at 1:50 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.1:50% DAB.



IHC image of CSB-RA549607A0HU diluted at 1:50 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and

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visualized using 0.1:50% DAB.



Immunofluorescence staining of U251 with CSB-RA549607A0HU at 1:10, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 502-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Overlay Peak curve showing A549 cells surface stained with CSB-RA549607A0HU (red line) at 1:50. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody  $(1\mu g/1*10^6 cells)$  for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?. Control antibody (green line) was rabbit IgG  $(1\mu g/1*10^6 cells)$  used under the same conditions. Acquisition of >10,000 events was performed.

## Description

The PANX1 recombinant monoclonal antibody is a product of a carefully planned production process involving in vitro cloning. The genes responsible for both the heavy and light chains of the PANX1 antibody are seamlessly integrated into expression vectors. Subsequently, these vectors are introduced into host cells, paving the way for the recombinant antibody's expression within a cell culture setting. Post-expression, the antibody undergoes purification from the supernatant of transfected host cell lines through affinity chromatography. This antibody can be used to detect human PANX1 protein in a broad range of applications, including ELISA, IHC, IF, and FC.

The main function of the PANX1 protein is to serve as a channel in the cell membrane that allows the passage of ions and small molecules between the intracellular and extracellular environments. PANX1 channels are involved in various physiological and pathological processes, including cellular communication, inflammation, apoptosis, wound healing, and ion homeostasis.