

Datasheet for ABIN7550615
PANX1 Protein (AA 1-426) (His tag)



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Overview

Quantity:	1 mg
Target:	PANX1
Protein Characteristics:	AA 1-426
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PANX1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PANX1 Protein expressed in mammalian cells.
Sequence:	<p>MAIAQLATEY VFSDFLLKEP TEPKFKGLRL ELAVDKMVTC IAVGLPLLLI SLAFAQEISI</p> <p>GTQISCFSPS SFSWRQAAV DSVCWAAVQQ KNSLQSESGN LPLWLHKFFP YILLFALL</p> <p>YLPPLFWRFA AAPHCSDLK FIMEELDKVY NRAIKAKSA RDLDMRDGAC SVPGV TENLG</p> <p>QSLWEVSESH FKYPIVEQYL KTKKNSNNLI IKYISCRLLT LIIILLACIY LGYYFSLSSL SDEFVCSIKS</p> <p>GILRNDSTVP DQFQCKLIAV GIFQLLSVIN LVVVVLLAPV VVYTLFVPFR QKTDVLKVYE</p> <p>ILPTFDVLHF KSEGYNDSL YNLFLEENIS EVKSYKCLKV LENIKSSGQG IDPMLLLTNL</p> <p>GMIKMDVVDG KTPMSAEMRE EQGNQTAE LQ GMNIDSETKA NNGEKNARQR LLDSSC Sequence</p> <p>without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	PANX1
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Alternative Name:	PANX1 (PANX1 Products)
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Background:	<p>Pannexin-1 (PANX1) [Cleaved into: Caspase-activated pannexin-1 (Caspase-activated PANX1)], FUNCTION: Ion channel involved in a variety of physiological functions such as blood pressure regulation, apoptotic cell clearance and oogenesis (PubMed:16908669, PubMed:20829356, PubMed:30918116, PubMed:15304325, PubMed:20944749). 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). {ECO:0000250 UniProtKB:Q9JIP4, ECO:0000269 PubMed:15304325, ECO:0000269 PubMed:16908669, ECO:0000269 PubMed:20944749, ECO:0000269 PubMed:32238926}., FUNCTION: [Caspase-activated pannexin-1]: During apoptosis, the C terminal tail is cleaved by caspases, which opens the main pore acting as a large-pore ATP efflux channel with a broad distribution, which allows the regulated release of molecules and ions smaller than 1 kDa, such as nucleotides ATP and UTP, and selective</p>
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Target Details

	plasma membrane permeability to attract phagocytes that engulf the dying cells. {ECO:0000269 PubMed:20944749, ECO:0000269 PubMed:32238926, ECO:0000269 PubMed:32494015}.
Molecular Weight:	48.1 kDa
UniProt:	Q96RD7

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months