

Datasheet for ABIN7563693
TMEM64 Protein (AA 1-381) (His tag)



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Overview

Quantity:	1 mg
Target:	TMEM64
Protein Characteristics:	AA 1-381
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TMEM64 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Tmem64 Protein expressed in mammalian cells.
Sequence:	MRNPGGSLPH TLPRALQHAG RTGVVEQPGR WAPERTAGGD RSEDRLPRGG GASAAAAAAA AAASGALLGA YLERHGLPAA SDLPAPAGAL AGGPGSGGGV VGVVAEVRNW RCCCLGSTCW CRSLVLCVLAALCFASLAL VRRYLQHLLL WVESLDSLLG VLLFVVGFI VVSFPCGWGYI VLNVAAGYLY GFVLGMGLMV VGVLIGTFIA HVVCKRLLTA WVAARIQNSD KLSAVIRVVE GGSGLKVVAL ARLTPIPFGL QNAVFSITDV PLPSYLMASS AGLLPTQLLN SYLGTTLRTM EDVIAEQSLS GYFVFCLQIV ISIGLMFYVV HRAQVELNAA IVACEMELKT SLVKGNQSDP SGSSFYNKRT LTFSGGGINI V Sequence 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	TMEM64
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Alternative Name:	Tmem64 (TMEM64 Products)
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Background:	Transmembrane protein 64,FUNCTION: Positively regulates TNFSF11-induced osteoclast differentiation. Acts as a regulator of TNFSF11-mediated Ca(2+) signaling pathways via its interaction with SERCA2 which is critical for the TNFSF11-induced CREB1 activation and mitochondrial ROS generation necessary for proper osteoclast generation. Association between TMEM64 and SERCA2 in the ER leads to cytosolic Ca (2+) spiking for activation of NFATC1 and production of mitochondrial ROS, thereby triggering Ca (2+) signaling cascades that promote osteoclast differentiation and activation (PubMed:23395171). Negatively regulates osteoblast differentiation and positively regulates adipocyte differentiation via modulation of the canonical Wnt signaling pathway. Mediates the switch in lineage commitment to osteogenesis rather than to adipogenesis in mesenchymal stem cells by negatively regulating the expression, activity and nuclear localization of CTNNB1 (PubMed:25979161). {ECO:0000269 PubMed:23395171, ECO:0000269 PubMed:25979161}.
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Molecular Weight:	39.8 kDa
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UniProt:	Q3U145
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Application Details

Application Notes: We expect the protein to work for functional studies. 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