

Datasheet for ABIN7560837
TBC1D7 Protein (AA 1-293) (His tag)



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Overview

Quantity:	1 mg
Target:	TBC1D7
Protein Characteristics:	AA 1-293
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TBC1D7 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Tbc1d7 Protein expressed in mammalian cells.
Sequence:	MTDDSQRNFR SVYYEKVGFR GVEEKKSLI LLKDDRLDIE KLCTFSQRFP LPSMYRALVW KALLGILPPH HDTHSQVMAY RKDQYHDILH ALTVVRFISD ATPQAEVYLR MYQLES GKLP RSPSFLEPE DEVFLAIAKA MEEMVEDSVD CYWISRCFVK QLNNKYRDAL PQLPKAFEQY LNLEDSRLLS HLKTCSAVSK LPYDLWFQRC FAGCLPESSL QRVWDKVVSG SCKILVFVAV EILLTFKIKV MALNSAEKIT KFLENIPQDS SDAIVSKAID LWHKHCCTPV HSA 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:	TBC1D7
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Alternative Name:	Tbc1d7 (TBC1D7 Products)
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Background:	TBC1 domain family member 7,FUNCTION: Non-catalytic component of the TSC-TBC complex, a multiprotein complex that acts as a negative regulator of the canonical mTORC1 complex, an evolutionarily conserved central nutrient sensor that stimulates anabolic reactions and macromolecule biosynthesis to promote cellular biomass generation and growth (PubMed:22795129). The TSC-TBC complex acts as a GTPase-activating protein (GAP) for the small GTPase RHEB, a direct activator of the protein kinase activity of mTORC1 (By similarity). In absence of nutrients, the TSC-TBC complex inhibits mTORC1, thereby preventing phosphorylation of ribosomal protein S6 kinase (RPS6KB1 and RPS6KB2) and EIF4EBP1 (4E-BP1) by the mTORC1 signaling (By similarity). The TSC-TBC complex is inactivated in response to nutrients, relieving inhibition of mTORC1 (By similarity). {ECO:0000250 UniProtKB:Q9P0N9, ECO:0000269 PubMed:22795129}.
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Molecular Weight:	33.8 kDa
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UniProt:	Q9D0K0
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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
