

Datasheet for ABIN7561713
TXNRD1 Protein (AA 1-613) (His tag)



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Overview

Quantity:	1 mg
Target:	TXNRD1
Protein Characteristics:	AA 1-613
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TXNRD1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Txnrd1 Protein expressed in mammalian cells.
Sequence:	<p>MPVDDCWLYF PASRGRTFVQ TVWVAPTCPN CCWFPGLPP VPRPPHVPRV LLRGPRGAVL</p> <p>PASRPSKTLP SSSQTPCPTD PCICPPPSTP DSRQEKNTQS ELPNKKGQLQ KLPTMNGSKD</p> <p>PPGSYDFDLI IIGGGSGGLA AAKEAAKFDK KVLVLDVFTP TPLGTRWGLG GTCVNVGCIP</p> <p>KKLMHQAALL GQALKDSRNY GWKVEDTVKH DWEKMTESVQ SHIGSLNWGY RVALREKKVV</p> <p>YENAYGRFIG PHRIVATNNK GKEKIYSAER FLIATGERPR YLGIPGDKEY CISSDDLFSL</p> <p>PYCPGKTLVV GASVVALECA GFLAGIGLDV TVMVRsILLR GFDQDMANKI GEHMEEHGIK</p> <p>FIRQFVPTKI EQIEAGTPGR LRVTAQSTNS EETIEGEFNT VLLAVGRDSC TRTIGLETVG</p> <p>VKINEKTGKI PVTDEEQTNV PYIYAIGDIL EGKLELTPVA IQAGRLLAQR LYGGSNVKCD</p> <p>YDNVPTTVFT PLEYGCCGLS EEKAVEKFGE ENIEVYHSFF WPLEWTVPSR DNNKCYAKII</p> <p>CNLKDDERVV GFHVLGPNAG EVTQGFAAAL KCGLTKQQLD STIGIHPVCA EIFTTLSVTK</p> <p>RSGGDILQSG CUG Sequence without tag. The proposed Purification-Tag is based on</p>

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.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	TXNRD1
Alternative Name:	Txnrd1 (TXNRD1 Products)
Background:	<p>Thioredoxin reductase 1, cytoplasmic (TR) (EC 1.8.1.9) (Peroxidase TXNRD1) (EC 1.11.1.2) (Thioredoxin reductase TR1),FUNCTION: Reduces disulfideprotein thioredoxin (Trx) to its dithiol-containing form. Homodimeric flavoprotein involved in the regulation of cellular redox reactions, growth and differentiation. Contains a selenocysteine residue at the C-terminal active site that is essential for catalysis. Also has reductase activity on hydrogen peroxide (H2O2). {ECO:0000250 UniProtKB:Q16881}.</p>
Molecular Weight:	67.1 kDa
UniProt:	Q9JMH6
Pathways:	Regulation of Lipid Metabolism by PPARalpha , Regulation of Carbohydrate Metabolic Process , Cell RedoxHomeostasis

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.
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Restrictions:	For Research Use only
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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