

Datasheet for ABIN7559363

STEAP3 Protein (AA 1-488) (His tag)



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Overview

Quantity:	1 mg
Target:	STEAP3
Protein Characteristics:	AA 1-488
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STEAP3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Steap3 Protein expressed in mammalian cells.
Sequence:	<p>MSGEMDKPLI SRRLVSDSGS LAEVPKEAPK VGILGSGDFA RSLATRLVGS GFSVVVGSRN PKRTAGLFPS LAQVTFQEEA VSSPEVIFVA VFREHYSSLC SLADQLAGKI LVDVSNPTEK EHLQHRQSNA EYLASLFAC TVVKAFNVIS AWALQAGPRD GNRQVLICSD QPEAKRTISE MARAMGFTPL DMGSLASARE VEAIPRLRLP SWKVPTLLAL GLFVCFYTYN FIRDVLQPYI RKDENKFYKM PLSVVNTTLP CVAYVLLSLV YLPGVLAAAL QLRRGTKYQR FPDWLDHWLQ HRKQIGLLSF FFAMLHALYS FCLPLRRSHR YDLVNLAVKQ VLANKSRLWW EEEVWRMEIY LSLGVLALGM LSLAVTSLP SIANSLNWKE FSFVQSTLGF VALILSTMHT LTYGWTRAFE ENHYKFYLP TFTLTLLLPC VIILAKGLFL LPCLSRRLTK IRRGWEKDGA VKFMLPGDHT QGEKTSHV 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.</p>

Product Details

Characteristics:

Key Benefits:

- 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

Grade:

custom-made

Target Details

Target:

STEAP3

Alternative Name:

Steap3 ([STEAP3 Products](#))

Background:

Metalloreductase STEAP3 (EC 1.16.1.-) (Dudulin-2) (Protein nm1054) (Six-transmembrane epithelial antigen of prostate 3) (Tumor suppressor-activated pathway protein 6), FUNCTION: Integral membrane protein that functions as a NADPH-dependent ferric-chelate reductase, using NADPH from one side of the membrane to reduce a Fe(3+) chelate that is bound on the other side of the membrane (PubMed:16227996, PubMed:16609065, PubMed:18955558). Mediates sequential transmembrane electron transfer from NADPH to FAD and onto heme, and finally to the Fe(3+) chelate (By similarity). Can also reduce Cu(2+) to Cu(1+) (PubMed:16609065). Mediates efficient transferrin-dependent iron uptake in erythroid cells (PubMed:16227996). May play a role downstream of p53/TP53 to interface apoptosis and cell cycle progression (By similarity). Indirectly involved in exosome secretion by facilitating the secretion of proteins such as TCTP (By similarity). {ECO:0000250|UniProtKB:Q5RKL5, ECO:0000250|UniProtKB:Q658P3, ECO:0000250|UniProtKB:Q687X5, ECO:0000269|PubMed:16227996, ECO:0000269|PubMed:16609065,

Target Details

	ECO:0000269 PubMed:18955558}.
Molecular Weight:	54.7 kDa
UniProt:	Q8CI59
Pathways:	Transition Metal Ion Homeostasis

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