

Datasheet for ABIN7554545 MCTS1 Protein (AA 1-181) (His tag)



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Quantity:	1 mg	
Target:	MCTS1	
Protein Characteristics:	AA 1-181	
Origin:	Human	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This MCTS1 protein is labelled with His tag.	
Application:	SDS-PAGE (SDS), Western Blotting (WB)	
Product Details		
Purpose:	Custom-made recombinat MCTS1 Protein expressed in mammalien cells.	
Sequence:	MFKKFDEKEN VSNCIQLKTS VIKGIKNQLI EQFPGIEPWL NQIMPKKDPV KIVRCHEHIE	
	ILTVNGELLF FRQREGPFYP TLRLLHKYPF ILPHQQVDKG AIKFVLSGAN IMCPGLTSPG	
	AKLYPAAVDT IVAIMAEGKQ HALCVGVMKM SAEDIEKVNK GIGIENIHYL NDGLWHMKTY K	
	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.	
Characteristics:	Key Benefits:	
	Made to order protein - from design to production - by highly experienced protein experts.	
	Protein expressed in mammalien cells and purified in one-step affinity chromatography	
	The optimized expression system ensures reliability for intracellular, secreted and	
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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

Alternative Name:

Target:	MCTS1

MCTS1 (MCTS1 Products)

Background:

Malignant T-cell-amplified sequence 1 (MCT-1) (Multiple copies T-cell malignancies),FUNCTION: Anti-oncogene that plays a role in cell cycle regulation, decreases cell doubling time and anchorage-dependent growth, shortens the duration of G1 transit time and G1/S transition. When constitutively expressed, increases CDK4 and CDK6 kinases activity and CCND1/cyclin D1 protein level, as well as G1 cyclin/CDK complex formation. Involved in translation initiation, promotes recruitment of aminoacetyled initiator tRNA to P site of 40S ribosomes. Can promote release of deacylated tRNA and mRNA from recycled 40S subunits following ABCE1-mediated dissociation of post-termination ribosomal complexes into subunits. Plays a role as translation enhancer, recruits the density-regulated protein/DENR and binds to the cap complex of the 5'-terminus of mRNAs, subsequently altering the mRNA translation profile, up-regulates protein levels of BCL2L2, TFDP1, MRE11, CCND1 and E2F1, while mRNA levels remains constant. Hyperactivates DNA damage signaling pathway, increased gammairradiation-induced phosphorylation of histone H2AX, and induces damage foci formation. Increases the overall number of chromosomal abnormalities such as larger chromosomes formation and multiple chromosomal fusions when overexpressed in gamma-irradiated cells. May play a role in promoting lymphoid tumor development: lymphoid cell lines overexpressing MCTS1 exhibit increased growth rates and display increased protection against apoptosis. May

contribute to the pathogenesis and progression of breast cancer via promotion of angiogenesis through the decline of inhibitory THBS1/thrombospondin-1, and inhibition of apoptosis. Involved in the process of proteasome degradation to down-regulate Tumor suppressor p53/TP53 in breast cancer cell, Positively regulates phosphorylation of MAPK1 and MAPK3. Involved in translation initiation, promotes aminoacetyled initiator tRNA to P site of 40S ribosomes. Can promote release of deacylated tRNA and mRNA from recycled 40S subunits following ABCE1-mediated dissociation of post-termination ribosomal complexes into subunits. {ECO:0000269|PubMed:10440924, ECO:0000269|PubMed:11709712, ECO:0000269|PubMed:12637315, ECO:0000269|PubMed:15897892, ECO:0000269|PubMed:16322206, ECO:0000269|PubMed:16982740, ECO:0000269|PubMed:17016429, ECO:0000269|PubMed:17416211,

Molecular Weight:

20.6 kDa

UniProt:

Q9ULC4

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	

ECO:0000269|PubMed:20713520, ECO:0000269|PubMed:9766643}.