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Datasheet for ABIN5711965 MCTS1 Protein (AA 1-181, full length) (His-SUMO Tag)



Overview

Image

Quantity:	100 µg
Target:	MCTS1
Protein Characteristics:	full length, AA 1-181
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MCTS1 protein is labelled with His-SUMO Tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	MFKKFDEKEN VSNCIQLKTS VIKGIKNQLI EQFPGIEPWL NQIMPKKDPV KIVRCHEHIE
	ILTVNGELLF FRQREGPFYP TLRLLHKYPF ILPHQQVDKG AIKFVLSGAN IMCPGLTSPG
	AKLYPAAVDT IVAIMAEGKQ HALCVGVMKM SAEDIEKVNK GIGIENIHYL NDGLWHMKTY K
Purification:	SDS-PAGE
Purity:	> 90 %

Target Details

Target:	MCTS1
Alternative Name:	MCTS1 (MCTS1 Products)
Background:	Anti-oncogene that play 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.

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When constituvely 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, MRE11A, CCND1 and E2F1, while mRNA levels rains constant.
Hyperactivates DNA damage signaling pathway, increased gamma-irradiation-induced
phosphorylation of histone H2AX, and induces damage foci formation. Increases the overall
number of chromosomal abnormalities such as larger chromosomes formation and multiples
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

Molecular Weight:

UniProt:

36.54 kDa

Q9ULC4

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

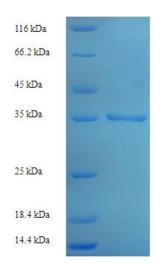
Handling

Format:	Liquid
Concentration:	0.1-2 mg/mL
Buffer:	20 mM Tris-HCl based buffer, pH 8.0
Storage:	-80 °C,4 °C,-20 °C

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Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Images



SDS-PAGE

Image 1.

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