

Recombinant human Malignant T-cell-amplified sequence 1

Catalog No: #AP71616

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Package Size: #AP71616-1 20ug #AP71616-2 100ug #AP71616-3 1mg

Description

Product Name	Recombinant human Malignant T-cell-amplified sequence 1
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-181aaSequence Info:Full Length
Other Names	Multiple copies T-cell malignancies
Accession No.	Q9ULC4
Uniprot	Q9ULC4
GeneID	28985;
Calculated MW	36.6 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MFKKFDEKENVSNCIQLKTSVIGIKNQLIEQFPGIEPWLNQIMPKKDPVKIVRCHEHIEILTVNGELLFFRQREG PFYPTLRLLHKYPFILPHQQVDKGAIKFVLSGANIMCPGLTSPGAKLYPAAVDTIVAIMAEGKQHALCVGVMMK SAEDIEKVNGIGIGIENIHYLNDGLWHMKTYK
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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. 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 aminoacylated 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 aminoacylated 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

References

NovelFam3000 -- uncharacterized human protein domains conserved across model organisms. Kemmer D., Podowski R.M., Arenillas D., Lim J., Hodges E., Roth P., Sonnhammer E.L.L., Høeeg C., Wasserman W.W. BMC Genomics 7:48-48(2006) Research Topic: Cell Cycle

Note: This product is for in vitro research use only