

Recombinant Human MLST8

Catalog No: #GP12926



Package Size: #GP12926-1 100ug

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Description

Product Name	Recombinant Human MLST8
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 1-200 amino acids of human MLST8
Target Name	MTOR associated protein, LST8 homolog
Other Names	GBL; LST8; POP3; WAT1; GbetaL
Accession No.	Swissprot:Q9BVC4 Gene Accession:BC020499
Uniprot	Q9BVC4
GeneID	64223;
Storage	-20~-80°C, pH 7.6 PBS

Background

Subunit of both mTORC1 and mTORC2, which regulates cell growth and survival in response to nutrient and hormonal signals. mTORC1 is activated in response to growth factors or amino acids. Growth factor-stimulated mTORC1 activation involves a AKT1-mediated phosphorylation of TSC1-TSC2, which leads to the activation of the RHEB GTPase that potently activates the protein kinase activity of mTORC1. Amino acid-signaling to mTORC1 requires its relocalization to the lysosomes mediated by the Ragulator complex and the Rag GTPases. Activated mTORC1 up-regulates protein synthesis by phosphorylating key regulators of mRNA translation and ribosome synthesis. mTORC1 phosphorylates EIF4EBP1 and releases it from inhibiting the elongation initiation factor 4E (eIF4E). mTORC1 phosphorylates and activates S6K1 at 'Thr-389', which then promotes protein synthesis by phosphorylating PDCD4 and targeting it for degradation.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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