

全国订货电话 4008-723-722

MLST8 抗原(重组蛋白)

- 中文名称: MLST8 抗原(重组蛋白)
- 英文名称: MLST8 Antigen (Recombinant Protein)
- 别名: MTOR associated protein, LST8 homolog; GBL; LST8; POP3; WAT1; GbetaL
- 储存: 冷冻(-20℃)
- 相关类别: 抗原

概述

Fusion protein corresponding to a region derived from 1-200 amino acids of human MLST8

技术规格

Full name:	MTOR associated protein, LST8 homolog
Synonyms:	GBL; LST8; POP3; WAT1; GbetaL
Swissprot:	Q9BVC4
Gene Accession:	BC020499
Purity:	>85%, as determined by Coomassie blue stained SDS-PAGE
Expression system:	Escherichia coli
Tags:	His tag C-Terminus, GST tag N-Terminus
Background:	Subunit of both mTORC1 and mTORC2, which regulates cell growth a nd 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 phosphoryla tion 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 regula tors of mRNA translation and ribosome synthesis. mTORC1 phosphory



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lates 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 PDC D4 and targeting it for degradation. Within mTORC1, LST8 interacts d irectly with MTOR and enhances its kinase activity. In nutrient-poor c onditions, stabilizes the MTOR-RPTOR interaction and favors RPTORmediated inhibition of MTOR activity. mTORC2 is also activated by gr owth factors, but seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exc hange factors. mTORC2 promotes the serum-induced formation of str ess-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' p hosphorylation, which may facilitate the phosphorylation of the activa tion loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for f ull activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'.