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Product Information

LATS2 (480-1088), GST-tagged, human recombinant, expressed in *Sf*9 cells

Catalog Number **SRP5202**
Storage Temperature –70 °C

Synonyms: KPM, FLJ13161

Product Description

LATS2 is a serine/threonine protein kinase belonging to the LATS tumor suppressor family.[1] The kinase activity and two conserved domains within LATS2 are responsible for the suppression of tumorigenicity and inhibition of cell growth. LATS2 negatively regulates the cell cycle by controlling G_1/S and/or G_2/M transition. LATS2 interacts with the centrosomal proteins AURORA A and Ajuba and is required for accumulation of γ-tubulin and spindle formation at the onset of mitosis.[2] LATS2 also interacts with a negative regulator of p53 and may function in a positive feedback loop with p53 that responds to cytoskeleton damage. LATS2 can also function as a co-repressor of androgen-responsive gene expression.

Recombinant human LATS2 (480-1088) was expressed by baculovirus in *Sf*9 cells using an N-terminal GST tag. The gene accession number is NM_014572. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~98 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

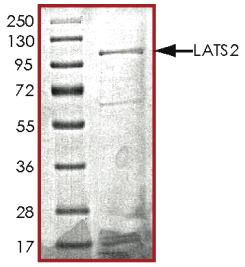
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at –70 °C is recommended. After opening, aliquot into smaller quantities and store at –70 °C. Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Li, Y. et al., Lats2, a putative tumor suppressor, inhibits G_1/S transition. Oncogene, **22**(28), 4398-405 (2003).
2. Yabuta, N. et al., Structure, expression, and chromosome mapping of LATS2, a mammalian homologue of the Drosophila tumor suppressor gene lats/warts. Genomics, **63**(2), 263-70 (2000).

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