

MYLK2 recombinant protein

MYLK2, Active

CATALOG # AAA73731	HOST Sf9 insect cells	APPLICATIONS Western Blot
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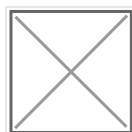
PRODUCT SYNONYMS

MYLK2; Active; skMLCK; KMLC; MLCK; MLCK2; MYLK2 recombinant protein

PRODUCT SPECIFICATIONS

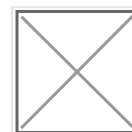
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Applicable Applications for MYLK2 recombinant protein	WB (Western Blot), Kinase Assay
Tag	HIS
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for MYLK2 recombinant protein	<p>Recombinant full-length human MYLK2 was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. The gene accession number is NM_033118.</p> <p>MYLK2 is a member of the myosin light chain kinase family and is a calcium/calmodulin dependent enzyme that is exclusively expressed in adult skeletal muscle (1). MYLK2 has been proposed to participate in signaling pathways (calcium signaling pathway, focal adhesion, regulation of actin cytoskeleton) and cellular processes (neuromuscular synaptic transmission, protein/amino acid phosphorylation). MYLK2 is involved in multiple molecular functions as a result of various subdomains that participate in ATP binding, calmodulin binding, nucleotide binding, protein serine/threonine kinase activity and transferase activity)(2).</p>
Product Categories/Family for MYLK2 recombinant protein	Protein Kinases; Cardiovascular Disease; PKA/PKC Pathway; Ser/Thr Kinases
References	<p>1. Soung, Y.H. et al.; Mutational analysis of the kinase domain of MYLK2 gene in common human cancers.Pathol Res Pract. 2006;202(3):137-40</p> <p>2. Toth-Zsamboki, E. et al. P2X1-mediated ERK2 activation amplifies the collagen-induced platelet secretion by enhancing myosin light chain kinase activation.J. Biol Chem. 2003; 278(47):46661-7</p>

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_033118
Molecular Weight	~74kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mylk2-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73731>