

Recombinant Human MYT1, GST-tagged

Cat. No. PKMYT1-7007H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human MYT1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	MYT1 is a member of a family of neural specific, zinc finger-containing DNA-binding proteins which binds to the promoter regions of proteolipid proteins of the central nervous system and plays a role in the developing nervous system. MYT1 of the oligodendrocyte lineage, along with a closely related CCHC zinc finger, is expressed in developing neurons in the mammalian central nervous system(1). The recombinant MYT1 fragments containing either the upstream 2 zinc fingers or the downstream 4 zinc fingers bound the same cis regulatory element in the PLP1 promoter in vitro and DNA binding required Zn(2+), but not other divalent cations.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~93 kDa
Purity	>80%

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Applications	Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	PKMYT1 protein kinase, membrane associated tyrosine/threonine 1 [Homo sapiens]
Official Symbol	PKMYT1
Synonyms	PKMYT1; protein kinase, membrane associated tyrosine/threonine 1; membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase; membrane associated tyrosine and threonine specific cdc2 inhibitory kinase; MYT1; myt1 kinase; FLJ20093; DKFZp547K1610;
Gene ID	9088
mRNA Refseq	NM_004203
Protein Refseq	NP_004194
MIM	602474
UniProt ID	Q99640
Chromosome Location	16p13.3

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Pathway

Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Cyclin A/B1 associated events during G2/M transition, organism-specific biosystem; Cyclin E associated events during G1/S transition, organism-specific biosystem;

Function

ATP binding; kinase activity; metal ion binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;

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