

Recombinant Human DUSP6, GST-tagged

Cat. No. DUSP6-12218H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human DUSP6 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 1-218a.a.

Description The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates ERK2, is expressed in a variety of tissues with the highest levels in heart and pancreas, and unlike most other members of this family, is localized in the cytoplasm. Two transcript variants encoding different isoforms have been found for this gene.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name DUSP6 dual specificity phosphatase 6 [Homo sapiens]

Official Symbol DUSP6

Synonyms DUSP6; dual specificity phosphatase 6; dual specificity protein phosphatase 6; MKP 3; PYST1; MAP kinase phosphatase 3; dual specificity protein phosphatase PYST1; serine/threonine specific protein phosphatase; mitogen-activated protein kinase phosphatase 3; MKP3;

Gene ID 1848

mRNA Refseq NM_001946

Protein Refseq NP_001937

MIM 602748

UniProt ID Q16828

Chromosome Location 12q22-q23

Pathway Activated TLR4 signalling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; ERK/MAPK targets, organism-specific biosystem; ERKs are inactivated, organism-specific biosystem; ErbB1 downstream signaling, organism-specific biosystem; Immune System, organism-specific

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biosystem; Innate Immune System, organism-specific biosystem;

Function

MAP kinase tyrosine/serine/threonine phosphatase activity; hydrolase activity; protein tyrosine phosphatase activity;

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