

Recombinant Full Length Human DUSP6 Protein, GST-tagged

Cat. No. DUSP6-4119HF Lot. No. (See product label)

SPECIFICATION

Product Overview Human DUSP6 full-length ORF (AAH03143, 1 a.a. - 381 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source In Vitro Cell Free System

ProteinLength 381 amino acids

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. Mutations in this gene have been associated with congenital hypogonadotropic hypogonadism. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2014]

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Molecular Mass	67.65 kDa
AA Sequence	MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMDCRPQELYESSHIESAINVAIP GIMLRRLQKGNLPVRALFTRGEDRDRFTRRCGTDTVVLYDESSSDWNENTGGESLL GLLLKCLKDEGCRAFYLEGGFSKFQAEFSLHCETNLDGSCSSSSPPLPVLGLGGLRI SSDSSSDIESDLDRDPNSATDSDGSPLSNSQPSFPVEILPFLYLGCARDSTNLDVLEE FGIKYILNVTPNLPNLFENAGEFKYKQIPISDHWSQNLQFFPEAISFIDEARGKNCGV LVHCLAGISRSVTVTVAYLMQKLNLSMNDAYDIVKMKKSNISPNFNFMGQLLDFERT LGLSSPCDNRVPAQQLYFTTPSNQNVYQVDSLQST
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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;

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Gene ID	1848
mRNA Refseq	NM_001946
Protein Refseq	NP_001937
MIM	602748
UniProt ID	Q16828

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