Recombinant Human DUSP4, GST-tagged

Cat. No. DUSP4-101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DUSP4 full-length ORF (AAH02671, 1 a.a. - 394 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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 ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed for this gene. In addition, multiple polyadenylation sites have been reported.
Molecular Mass	69.08 kDa
AA Sequence	MVTMEELREMDCSVLKRLMNRDENGGGAGGSGSHGTLGLPSGGKCLLLDCRPFLA HSAGYILGSVNVRCNTIVRR RAKGSVSLEQILPAEEEVRARLRSGLYSAVIVYDERS

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	PRAESLREDSTVSLVVQALRRNAERTDICLLKGGYERF SSEYPEFCSKTKALAAIPP PVPPSATEPLDLGCSSCGTPLHDQGGPVEILPFLYLGSAYHAARRDMLDALGITAL L NVSSDCPNHFEGHYQYKCIPVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHCQA GISRSATICLAYLMMKKR VRLEEAFEFVKQRRSIISPNFSFMGQLLQFESQVLATSCA AEAASPSGPLRERGKTPATPTSQFVFSFPVSVGVH SAPSSLPYLHSPITTSPSC
Applications	ELISA; WB; Antibody Production; Protein Array
Storage	Store at -80°C. 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	DUSP4 dual specificity phosphatase 4 [Homo sapiens (human)]
Official Symbol	DUSP4
Synonyms	DUSP4; TYP; HVH2; MKP2; MKP-2; dual specificity phosphatase 4; MAP kinase phosphatase 2; VH1 homologous phosphatase 2; dual specificity protein phosphatase hVH2; serine/threonine specific protein phosphatase; mitogen-activated protein kinase phosphatase 2; EC 3.1.3.16; EC 3.1.3.48
Gene ID	1846
mRNA Refseq	NM_001394
Protein Refseq	NP_001385
MIM	602747

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UniProt ID	Q13115
Chromosome Location	8p12-p11
Pathway	Activated TLR4 signalling; B Cell Receptor Signaling Pathway; ERK/MAPK targets
Function	MAP kinase tyrosine/serine/threonine phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine/threonine phosphatase activity

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