

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	<p>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.</p>
Molecular Mass	69.08 kDa
AA Sequence	MVTMEELREMDCSVLKRLMNRDENGSGGGAGGSGSHGTLGLPSGGKCLLLDCRPFLA HSAGYILGSVNVRCNTIVRR RAKGSVSLEQILPAEEVRRARLRSGLYSAVIVYDERS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PRAESLREDSTVSLVVQALRRNAERTDICLLKGGYERF SSEYPEFCSTKALAAIPP
 PVPPSATEPLDLGCSSCGTPLHDQGGPVEILPFLYLGSAYHAARRDMLDALGITAL L
 NVSSDCPNHFEGHYQYKCIPVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHCQA
 GISRSATICLAYLMMKKR VRLEEAFAFEVKQRRSIISPNSFIMGQLLQFESQVLATSCA
 AEAASPSGPLRERGGKTPATPTSQFVFSFPVSVGVH 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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