

Recombinant Full Length Human DUSP12 Protein, GST-tagged

Cat. No. DUSP12-4091HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DUSP12 full-length ORF (AAH06286.1, 1 a.a. - 340 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	340 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 is 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 is the human ortholog of the <i>Saccharomyces cerevisiae</i> YVH1 protein tyrosine phosphatase. It is localized predominantly in the nucleus, and is novel in that it contains, and is regulated by a zinc finger domain. [provided by RefSeq, Jul 2008]
Molecular Mass	63.03 kDa
AA Sequence	MLEAPGPSDGCELSNPSASRVSCAGQMLEVQPGLYFGGAAAVAEPDHLREAGITA

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VLTVDSEEPSFKAGPGVEDLWRLFVPALDKPETDLLSHLDRCVAFIGQARAEGRAVL
 VHCHAGVSRVAITAFMKTDQLPFEKAYEKLQILKPEAKMNEGFQWLKLYQAMG
 YEVDTSIAIKQYRLQKVTEKYPELQNLQELFAVDPTTVSQGLKDEVLYKCRKCRR
 SLFRSSSILDHREGSGPIAFAHKRMTPSSMLTTGRQAQCTSYFIEPVQWMESALLGV
 MDGQLLCPKCSAKLGSFNWYGEQCSCGRWITPAFQIHKNRVDEMILPVLGSQTGK
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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

DUSP12 dual specificity phosphatase 12 [Homo sapiens]

Official Symbol

DUSP12

Synonyms

DUSP12; dual specificity phosphatase 12; dual specificity protein phosphatase 12;
 DUSP1; serine/threonine specific protein phosphatase; YVH1; YVH1 protein tyrosine
 phosphatase (S. cerevisiae) ortholog; YVH1 protein-tyrosine phosphatase ortholog;
 dual specificity tyrosine phosphatase YVH1;

Gene ID

11266

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mRNA Refseq	NM_007240
Protein Refseq	NP_009171
MIM	604835
UniProt ID	Q9UNI6

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