

Recombinant Human DUSP12 Protein, GST-tagged

Cat. No. DUSP12-2925H **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	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 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	MLEAPGPSDGCESLNPSASRVSCAGQMLEVQPGLYFGGAAAVAEPDHLREAGITAVLTVDSEEPSFKAGPGVEDLWRLFVPALDKPETDLLSHLDRCVAFIGQARAEGRAVL

 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

VHCHAGVSRVAITAFMKTDQLPFEKAYEKLQILKPEAKMNEGFQWLKLYQAMG
YEVDTSIAIKYQYRLQKVTEKYPELQNLQELFAVDPTTVSQGLKDEVLYKCRKCRR
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](#)

mRNA Refseq [NM_007240](#)

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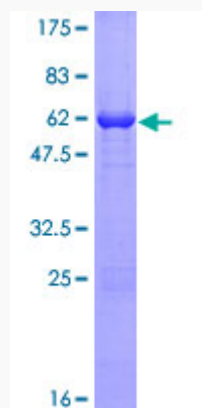
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Protein Refseq NP_009171

MIM 604835

UniProt ID Q9UNI6

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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