Recombinant Full Length Human DUSP9 Protein, GST-tagged

Cat. No. DUSP9-4122HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DUSP9 full-length ORF (AAH60837.1, 1 a.a. - 384 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	384 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 shows selectivity for members of the ERK family of MAP kinases and is localized to the cytoplasm and nucleus. Aberrant expression of this gene is associated with type 2 diabetes and cancer progression in several cell types. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]
Molecular Mass	68.3 kDa

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AA Sequence	MEGLGRSCLWLRRELSPPRPRLLLLDCRSRELYESARIGGALSVALPALLLRRLRRG SLSVRALLPGPPLQPPPPAPVLLYDQGGGRRRRGEAEAEAEEWEAESVLGTLLQKL REEGYLAYYLQGGFSRFQAECPHLCETSLAGRAGSSMAPLPGPVPVVGLGSLCLG SDCSDAESEADRDSMSCGLDSEGATPPPVGLRASFPVQILPNLYLGSARDSANLES LAKLGIRYILNVTPNLPNFFEKNGDFHYKQIPISDHWSQNLSRFFPEAIEFIDEALSQN RGVLVHCLAGVSRSVTVTVAYLMQKLHLSLNDAYDLVKRKKSNISPNFNFMGQLLDF ERSLRLEERHSQEQGSGGQASAASNPPSFFTTPTSDGAFELAPT
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	DUSP9 dual specificity phosphatase 9 [Homo sapiens]
Official Symbol	DUSP9
Synonyms	DUSP9; dual specificity phosphatase 9; dual specificity protein phosphatase 9; map kinase phosphatase 4; MKP 4; MKP4; serine/threonine specific protein phosphatase; mitogen-activated protein kinase phosphatase 4; MKP-4;
Gene ID	1852

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mRNA Refseq	NM_001395
Protein Refseq	NP_001386
MIM	300134
UniProt ID	Q99956

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