

Recombinant Human DUSP9 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DUSP9-5092H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DUSP9 MS Standard C13 and N15-labeled recombinant protein (NP_001386) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	41.9 kDa

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AA Sequence	MEGLGRSCLWLRRELSPPRPRLLLDCRSRELYESARIGGALSVALPALLRRLRRG SLSVRALLPGPPLQPPPPAPVLLYDQGGGRRRRGEAEAEAEWEAESVLGTLLQKL REEGYLAYYLQGGFSRFQAECPHLCETSLAGRAGSSMAPLPGPVPVVGSLCLG SDCSDAESEADRDSMSCGLDSEGATPPPVGRLASFVPVQILPNLYLGSARDSANLES LAKLGIRYILNVTPNLPNFFEKNGDFHYKQIPISDHWSQNLSRFFPEAIEFIDEALSQN RGVLVHCLAGVSRSVTVTVAYLMQKLHLSLNDAYDLVKRKKSNISPNFNFMGQLLDF ERSLRLEERHSSEQGSGGQASAASNPPSFFTTPTSDGAFELAPTTTRTRPLEQKLISE EDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	DUSP9 dual specificity phosphatase 9 [Homo sapiens (human)]
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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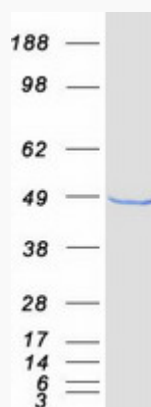
mRNA Refseq [NM_001395](#)

Protein Refseq [NP_001386](#)

MIM [300134](#)

UniProt ID [Q99956](#)

SDS-PAGE



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