

Recombinant Human DUSP2, GST-tagged

Cat. No. DUSP2-101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DUSP2 full-length ORF (ACE87730.1, 1 a.a. - 314 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 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 and ERK2, is predominantly expressed in hematopoietic tissues, and is localized in the nucleus.
Molecular Mass	60.94 kDa
AA Sequence	MGLEAARELECAALGTLLRDPREAERTLLLD CRPFLAFCRRHVRAARPVPWNALLR RRARGPPAAVLACLLPDRA LRTRLVRGELARAVVLDEGSASVAELRPDSPAHVLLA ALLHETRAGPTAVYFLRGGFDGFGQCCPDLCSEAPAPA LPPTGDKTSRSDSRAPV

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YDQGGPVEILPYLFLGSCSHSSDLQGLQACGITAVLNVSASCPNHFEGLFYKSIPIV
E DNQMVEISAWFQEAIGFIDWVKNSGGRVLVHCQAGISRSATICLAYLMQSRVRVL
DEAFDFVKQRRGVISPNFSF MGQLLQFETQVLCH

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 DUSP2 dual specificity phosphatase 2 [Homo sapiens (human)]

Official Symbol DUSP2

Synonyms DUSP2; PAC1; PAC-1; dual specificity phosphatase 2; dual-specificity phosphatase 2; dual specificity protein phosphatase PAC-1; serine/threonine specific protein phosphatase; EC 3.1.3.16; EC 3.1.3.48

Gene ID 1844

mRNA Refseq NM_004418

Protein Refseq NP_004409

MIM 603068

UniProt ID Q05923

Chromosome Location 2q11

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Pathway	MAPK signaling pathway
Function	MAP kinase tyrosine/serine/threonine phosphatase activity; mitogen-activated protein kinase binding; protein tyrosine phosphatase activity

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