

Recombinant Human DUSP3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DUSP3-2260H Lot. No. (See product label)

SPECIFICATION

Product Overview DUSP3 MS Standard C13 and N15-labeled recombinant protein (NP_004081) 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 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 maps in a region that contains the BRCA1 locus which confers susceptibility to breast and ovarian cancer. Although DUSP3 is expressed in both breast and ovarian tissues, mutation screening in breast cancer pedigrees and in sporadic tumors was negative, leading to the conclusion that this gene is not BRCA1.

Molecular Mass 20.5 kDa

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AA Sequence	MSGSFELSVQDLNDLLSDGSGCYSLPSQPCNEVTPRIYVGNASVAQDIPKLQKLGIT HVLNAAEGRSFMHVNTNANFYKDSGITYLGIKANDTQEFNLSAYFERAADFIDQALA QKNGRVLVHCREGYSRSPTLVIAYLMMRQKMDVKSALSIVRQNREIGPNDGFLAQL CQLNDRLAKEGKPKSPGPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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	DUSP3 dual specificity phosphatase 3 [Homo sapiens (human)]
Official Symbol	DUSP3
Synonyms	DUSP3; dual specificity phosphatase 3; vaccinia virus phosphatase VH1 related, VHR; dual specificity protein phosphatase 3; vaccinia H1-related phosphatase; vaccinia virus phosphatase VH1-related; dual specificity protein phosphatase VHR; serine/threonine specific protein phosphatase; VHR;
Gene ID	1845
mRNA Refseq	NM_004090

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Protein Refseq NP_004081

MIM 600183

UniProt ID P51452

SDS-PAGE



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