

Recombinant Human DUSP3, His-tagged

Cat. No. DUSP3-26911TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full-length Human DUSP3 with a N terminal His tag; 205aa, 23 kDa.

Species Human

Source E.coli

ProteinLength 205 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 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.

Conjugation HIS

Molecular Weight 23.000kDa inclusive of tags

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Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol, 0.04% DTT, 0.88% Sodium chloride
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMSGFELSVQDLNDLLSDGSGCYSLPSQPCNEVTP RIYVGNASVAQDIPKLQKLGITHVLNAAEGRSFMHNTNANFYKDMSGITYLGKANDTQ EFNLSAYFERAADFIDQALAQKNGRVLVHCREGYSRSPTLVIAYLMMRQKMDVKSA LSIVRQNREIGPNDGFLAQLCQLNDRLAKEGKLP
Sequence Similarities	Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily. Contains 1 tyrosine-protein phosphatase domain.

GENE INFORMATION

Gene Name	DUSP3 dual specificity phosphatase 3 [Homo sapiens]
Official Symbol	DUSP3
Synonyms	DUSP3; dual specificity phosphatase 3; vaccinia virus phosphatase VH1 related , VHR; dual specificity protein phosphatase 3;
Gene ID	1845
mRNA Refseq	NM_004090

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Protein Refseq	NP_004081
MIM	600183
Uniprot ID	P51452
Chromosome Location	17q21
Pathway	Activated TLR4 signalling, organism-specific biosystem; ERK/MAPK targets, organism-specific biosystem; ERKs are inactivated, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem;
Function	MAP kinase phosphatase activity; hydrolase activity; phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine phosphatase activity;

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