

Product datasheet for PH301119

DUSP3 (NM_004090) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DUSP3 MS Standard C13 and N15-labeled recombinant protein (NP_004081)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201119
Predicted MW:	20.5 kDa
Protein Sequence:	>RC201119 protein sequence Red =Cloning site Green =Tags(s) MSGSFELSVQDLNDLLSDGSGCYSLPSQPCNEVTPRIYVGNASVAQDIPKLQKLGITHVLNAAEGRSFMH VNTNANFYKDSGITYLGIKANDTQEFNLSAYFERAADFIDQALAQKNGRVLVHCREGYSRSPTLVIAYLM MRQKMDVKSALSIVRQNREIGPNDGFLAQLCQLNDRLAKEGKLP SGP TRTRPLE QKLI SEED LAANDILDYKDDDDK V
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_004081</u>
RefSeq Size:	4139
RefSeq ORF:	555
Synonyms:	VHR
Locus ID:	1845
UniProt ID:	<u>P51452</u>



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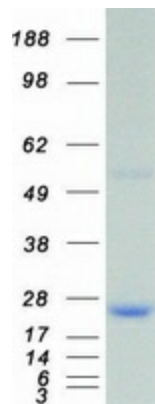
Cytogenetics: 17q21.31

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: MAPK signaling pathway

Product images:



Coomassie blue staining of purified DUSP3 protein (Cat# [TP301119]). The protein was produced from HEK293T cells transfected with DUSP3 cDNA clone (Cat# [RC201119]) using MegaTran 2.0 (Cat# [TT210002]).