DUSP5 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	DUSP5, Blocking Peptide
Full Product Name	DUSP5 Peptide - middle region
Product Gene Name	DUSP5 blocking peptide
Product Synonym Gene Name	DUSP; HVH3
Sequence	ANLHITALLN VSRRTSEACA THLHYKWIPV EDSHTADISS HFQEAIDFID
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	DUSP5 peptide (MBS3238737) is used for blocking the activity of DUSP5 antibody (MBS3213798)
Molecular Weight	42kDa
OMIM	603069
Product Categories/Family for DUSP5 blocking peptide	Peptide
Applications Tested/Suitable for DUSP5 blocking peptide	Western Blot (WB)
Related Product Information for DUSP5 blocking peptide	This is a synthetic peptide designed for use in combination with anti-DUSP5 Antibody, made Target 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, is expressed in a variety of tissues with the highest levels in pancreas and brain, and is localized in the nucleus.
Other Notes	Small volumes of DUSP5 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DUSP5 purchase	MBS3238737 is a blocking peptide targeting DUSP5. Also known as DUSP5 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUSP5. It may not necessarily be applicable to this product.

NCBI GI #	62865890
NCBI GeneID	1847
NCBI Accession #	NP_004410
UniProt Primary Accession #	Q16690

UniProt Related Accession #	Q16690
GenBank Nucleotide #	NM_004419
NCBI Official Full Name	dual specificity protein phosphatase 5
NCBI Official Synonym Full Names	dual specificity phosphatase 5
NCBI Official Symbol	DUSP5
NCBI Official Synonym Symbols	DUSP; HVH3
UniProt Protein Name	Dual specificity protein phosphatase 5
UniProt Synonym Protein Names	Dual specificity protein phosphatase hVH3
Protein Family	Dual specificity protein phosphatase
UniProt Gene Name	DUSP5
UniProt Synonym Gene Names	VH3
UniProt Entry Name	DUS5_HUMAN
NCBI Protein Information	dual specificity protein phosphatase 5
NCBI Summary for DUSP5	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, is expressed in a variety of tissues with the highest levels in pancreas and brain, and is localized in the nucleus. [provided by RefSeq, Jul 2008]
UniProt Comments for DUSP5	Function: Displays phosphatase activity toward several substrates. The highest relative activity is toward ERK1. Catalytic activity: Protein tyrosine phosphate + H2O = protein tyrosine + phosphate.A phosphoprotein + H2O = a protein + phosphate. Subcellular location: Nucleus Potential. Sequence similarities: Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily.Contains 1 rhodanese domain.Contains 1 tyrosine-protein phosphatase domain.
Research Articles on DUSP5	**1.** Data show that dual specificity phosphatase 5 (DUSP5) is a downstream target of p68 RNA helicase (p68).
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