DUSP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DUSP4, Polyclonal Antibody
Full Product Name	DUSP4 Rabbit pAb
Product Gene Name	anti-DUSP4 antibody
Product Synonym Names	TYP; HVH2; MKP2; MKP-2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Monkey
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	43kDa
OMIM	602747
3D Structure	ModBase 3D Structure for Q13115
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-168 of human DUSP4 (NP_001385.1).
Cellular Localization	Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DUSP4 antibody	Western Blot (WB)
Application Notes for anti-DUSP4 antibody	WB: 1:500-1:2000
Related Product Information for anti-DUSP4 antibody	Regulates mitogenic signal transduction by dephosphorylating both Thr and Tyr residues on MAP kinases ERK1 and ERK2.
Other Notes	Small volumes of anti-DUSP4 antibody 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 DUSP4 purchase	MBS8548742 is an antibody targeting DUSP4. Also known as DUSP4 Rabbit pAb. Reactive in Human, Monkey. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUSP4. It may not necessarily be applicable to this product.

NCBI GI #	2499745
NCBI GeneID	1846
NCBI Accession #	Q13115.1

UniProt Primary Accession #	Q13115
UniProt Related Accession #	Q13115
NCBI Official Full Name	Dual specificity protein phosphatase 4
NCBI Official Synonym Full Names	dual specificity phosphatase 4
NCBI Official Symbol	DUSP4
NCBI Official Synonym Symbols	TYP; HVH2; MKP2; MKP-2
UniProt Protein Name	Dual specificity protein phosphatase 4
UniProt Synonym Protein Names	Dual specificity protein phosphatase hVH2; Mitogen-activated protein kinase phosphatase 2; MAP kinase phosphatase 2; MKP-2
Protein Family	Dual specificity protein phosphatase
UniProt Gene Name	DUSP4
UniProt Synonym Gene Names	MKP2; VH2; MAP kinase phosphatase 2; MKP-2
UniProt Entry Name	DUS4_HUMAN
NCBI Protein Information	dual specificity protein phosphatase 4
NCBI Summary for DUSP4	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, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed for this gene. In addition, multiple polyadenylation sites have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for DUSP4	MKP-2: a non-receptor, dual-specificity phosphoprotein phosphatase (DUSP). Different members of the DUSP family show distinct substrate specificities for MAPKs, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. DUSP4 inactivates ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Induced by hepatocyte growth factor (HGF) and vascular endothelial cell growth factor (VEGF) in human endothelial cells. Two alternatively spliced isoforms have been described. In addition, multiple polyadenylation sites have been reported. Contains 1 rhodanese domain. Protein type: Protein phosphatase, dual-specificity; EC 3.1.3.48; EC 3.1.3.16 Chromosomal Location of Human Ortholog: 8p12-p11 Cellular Component: nucleoplasm; nucleus Molecular Function: protein tyrosine/threonine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity; protein tyrosine phosphatase activity; MAP kinase tyrosine/serine/threonine phosphatase activity Biological Process: nerve growth factor receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; stress-activated MAPK cascade; MAPKKK cascade; toll-like receptor 3 signaling pathway; protein amino acid dephosphorylation; toll-like receptor 2 signaling pathway; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; endoderm formation; toll-like receptor signaling pathway; innate immune response; toll-like receptor 9 signaling pathway; toll-like receptor 4 signaling pathway; inactivation of MAPK activity
Research Articles on DUSP4	**1.** The expression of miR-122-5p in GC tissues and cells was significantly down-regulated, whereas DUSP4 expression was up-regulated. MiR-122-5p restrained migration and invasion abilities of GC cells by repressing DUSP4.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-monkey-antibody/dusp4/8548742