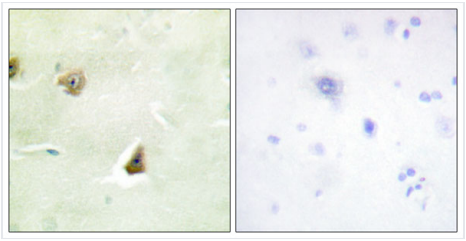
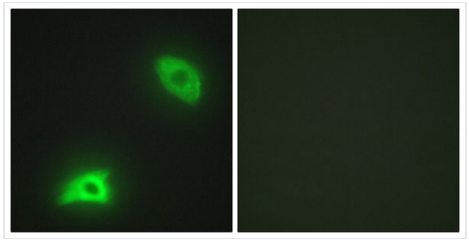
DUSP6 Antibody

PRODUCT OVERVIEW

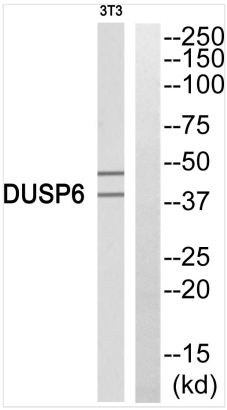
Product Name	DUSP6, Antibody
Full Product Name	DUSP6 Antibody
Product Gene Name	anti-DUSP6 antibody
Product Synonym Names	dual specificity protein phosphatase 6; dual specificity protein phosphatase PYST1; DUS6; DUSP6; EC 3.1.3.16; EC 3.1.3.48; MAP kinase phosphatase 3; mitogen-activated protein kinase phosphatase 3; MKP-3; MKP3; PYST1
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	DUSP6 antibody detects endogenous levels of total DUSP6 protein.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	26,468 Da
OMIM	602748
3D Structure	ModBase 3D Structure for Q16828
Immunogen	The antiserum was produced against synthesized peptide derived from internal of human DUSP6.
Product Categories/Family for anti-DUSP6 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DUSP6 antibody	Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA (EIA), Western Blot (WB)
Application Notes for anti-DUSP6 antibody	IHC: 1:50-1:100 IF: 1:100-1:500 ELISA: 1:20000 WB: 1:500-1:1000
Related Product Information for anti-DUSP6 antibody	MBS852134 is an antibody targeting DUSP6. Also known as DUSP6 Antibody. Reactive in Human, Mouse, Rat.
Product References and Citations for anti-DUSP6 antibody	Groom L.A., EMBO J. 15:3621-3632(1996). Furukawa T., Cytogenet. Cell Genet. 82:156-159(1998). Stewart A.E., Nat. Struct. Biol. 6:174-181(1999).
Other Notes	Small volumes of anti-DUSP6 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.



Testing Data of anti-DUSP6 antibody
Peptide-+



Immunohistochemistry (IHC) of anti-DUSP6 antibody
Peptide-+ Immunohistochemistry analysis of paraffin-embedded human brain tissue, using DUSP6 antibody. Immunofluorescence analysis of HeLa cells, using DUSP6 antibody.



Western Blot (WB) of anti-DUSP6 antibody
Western blot analysis of 3T3 cells using DUSP6 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUSP6. It may not necessarily be applicable to this product.

NCBI GI #	42764683
NCBI GeneID	1848
NCBI Accession #	NP_001937.2
UniProt Primary Accession #	Q16828
UniProt Secondary Accession #	O75109; Q53Y75; Q9BSH6
UniProt Related Accession #	Q16828
GenBank Nucleotide #	NM_001946.3
NCBI Official Full Name	dual specificity protein phosphatase 6 isoform a
NCBI Official Synonym Full Names	dual specificity phosphatase 6
NCBI Official Symbol	DUSP6
NCBI Official Synonym Symbols	HH19; MKP3; PYST1
UniProt Protein Name	Dual specificity protein phosphatase 6
UniProt Synonym Protein Names	Dual specificity protein phosphatase PYST1; Mitogen-activated protein kinase phosphatase 3; MAP kinase phosphatase 3; MKP-3
Protein Family	Dual specificity protein phosphatase
UniProt Gene Name	DUSP6
UniProt Synonym Gene Names	MKP3; PYST1; MAP kinase phosphatase 3; MKP-3
NCBI Protein Information	dual specificity protein phosphatase 6

NCBI Summary for DUSP6	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 ERK2, is expressed in a variety of tissues with the highest levels in heart and pancreas, and unlike most other members of this family, is localized in the cytoplasm. Mutations in this gene have been associated with congenital hypogonadotropic hypogonadism. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2014]
UniProt Comments for DUSP6	Inactivates MAP kinases. Has a specificity for the ERK family (PubMed:9858808). Plays an important role in alleviating chronic postoperative pain. Necessary for the normal dephosphorylation of the long-lasting phosphorylated forms of spinal MAPK1/3 and MAP kinase p38 induced by peripheral surgery, which drives the resolution of acute postoperative allodynia (). Also important for dephosphorylation of MAPK1/3 in local wound tissue, which further contributes to resolution of acute pain ().
Research Articles on DUSP6	**1.** Data show that oxidative stress and MAP kinase phosphatase 3 (MKP3) inhibition play a critical role in procyanidin B2 3,3"-di-O-gallate (B2G2)-induced cell death in prostate cancer (PCa) cells through sustained activation of both ERK1/2 and AMPKalpha.
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