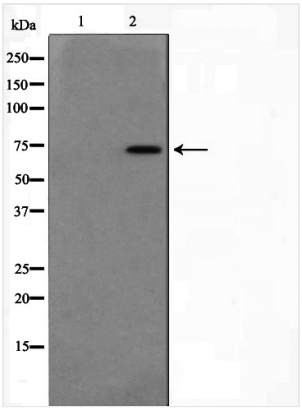
DUSP16 Antibody – Rabbit Polyclonal

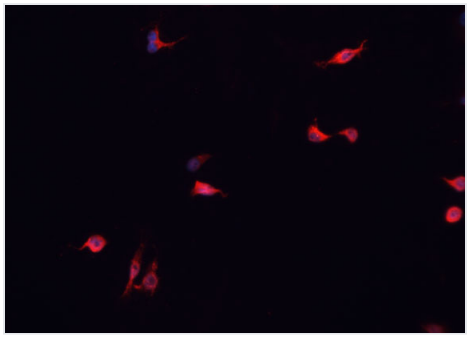
PRODUCT OVERVIEW

Product Name	DUSP16, Polyclonal Antibody
Full Product Name	DUSP16 Antibody
Product Gene Name	anti-DUSP16 antibody
Product Synonym Names	Dual specificity phosphatase 16; Dual specificity protein phosphatase 16; DUS16_HUMAN; DUSP 16; DUSP16; KIAA1700; MAP kinase phosphatase 7; MAPK phosphatase 7; Mitogen activated protein kinase phosphatase 7; Mitogen-activated protein kinase phosphatase 7; MKP 7; MKP-7; MKP7
Clonality	Polyclonal
Isotype	IgG1
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid Phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	DUSP16 antibody detects endogenous levels of DUSP16
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	DUSP16 peptide (MBS9614947) is used for blocking the activity of DUSP16 antibody (MBS9600394)
Molecular Weight	Observed: 73 kDa Predicted: 74 kDa
3D Structure	ModBase 3D Structure for Q9BY84
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human DUSP16
Subcellular Location	Cytoplasm. Nucleus. Cytoplasmic Vesicle. After dissociation upon AGTR stimulation, re-associates with ARRB2 on endocytic vesicles.
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DUSP16 antibody	Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-DUSP16 antibody	WB: 1:500-1:2000 IF/ICC: 1:100-1:500

Related Product Information for anti-DUSP16 antibody	Description: The activation of mitogen-activated protein kinase (MAPK) cascades transduces various extracellular signals to the nucleus to induce gene expression, cell proliferation, differentiation, cell cycle arrest, and apoptosis. For full activation of MAPKs, dual-specificity kinases phosphorylate both threonine and tyrosine residues in MAPK TXY motifs. MKPs are dual-specificity phosphatases that dephosphorylate the TXY motif, thereby negatively regulating MAPK activity.[supplied by OMIM] Function: Dual specificity protein phosphatase involved in the inactivation of MAP kinases. Dephosphorylates MAPK10 bound to ARRB2. Subunit Structure: Interacts with ARRB2. Post-translational Modifications: Phosphorylated at Ser-446 by MAPK1/ERK2, which prevents its degradation, and thereby stabilizes it and blocks JNK MAPK activity. (Microbial infection) Acetylated at Lys-55 by the M.tuberculosis Eis protein; this leads to the inhibition of JNK-dependent autophagy, phagosome maturation, and ROS (reactive oxygen species) generation for enhanced intracellular survival of M.tuberculosis. Similarity: Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily.
Other Notes	Small volumes of anti-DUSP16 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 DUSP16 purchase	MBS9600394 is an antibody targeting DUSP16. Also known as DUSP16 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-DUSP16 antibody
Western blot analysis on Jurkat cell lysate using DUSP16 Antibody, The lane on the left is treated with the antigen-specific peptide.



Immunofluorescene (IF) of anti-DUSP16 antibody
MBS9600394 staining MCF-7 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUSP16. It may not necessarily be applicable to this product.

NCBI GI #	38372911
NCBI GeneID	80824
NCBI Accession #	NP_085143.1
UniProt Primary Accession #	Q9BY84
UniProt Secondary Accession #	Q547C7; Q96QS2; Q9C0G3
UniProt Related Accession #	Q9BY84
GenBank Nucleotide #	NM_030640.2
NCBI Official Full Name	dual specificity protein phosphatase 16
NCBI Official Synonym Full Names	dual specificity phosphatase 16
NCBI Official Symbol	DUSP16
NCBI Official Synonym Symbols	MKP7; MKP-7
UniProt Protein Name	Dual specificity protein phosphatase 16

UniProt Synonym Protein Names	Mitogen-activated protein kinase phosphatase 7; MAP kinase phosphatase 7; MKP-7
Protein Family	Dual specificity protein phosphatase
UniProt Gene Name	DUSP16
UniProt Synonym Gene Names	KIAA1700; MKP7; MAP kinase phosphatase 7; MKP-7
NCBI Protein Information	dual specificity protein phosphatase 16
NCBI Summary for DUSP16	This gene encodes a mitogen-activated protein kinase phosphatase that 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. The encoded protein specifically regulates the c-Jun amino-terminal kinase (JNK) and extracellular signal-regulated kinase (ERK) pathways.[provided by RefSeq, May 2010]
UniProt Comments for DUSP16	Dual specificity protein phosphatase involved in the inactivation of MAP kinases. Dephosphorylates MAPK10 bound to ARRB2.
Research Articles on DUSP16	**1.** The crystal structure of JNK1 bound to the catalytic domain of MKP7 at 2.4-A resolution, providing high-resolution structural insight into the FXF-docking interaction, is reported.
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