

Rabbit DUSP16 Polyclonal Antibody | anti-DUSP16 antibody

Phospho-DUSP16 (Ser446) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329819	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (86%), Zebrafish (86%), Bovine (86%), Rabbit (86%), Chicken (86%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DUSP16; Polyclonal Antibody; Phospho-DUSP16 (Ser446) Antibody; Dual specificity phosphatase 16; Dual specificity protein phosphatase 16; DUS16_HUMAN; DUSP 16; 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; anti-DUSP16 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (86%), Zebrafish (86%), Bovine (86%), Rabbit (86%), Chicken (86%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-DUSP16 (Ser446) Antibody detects endogenous levels of DUSP16 only when phosphorylated at Ser446.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-DUSP16 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DUSP16 around the phosphorylation site of Ser446.
Conjugation	Unconjugated
Fragment	Fab fragment
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.
Subunit Structure	Interacts with ARRB2.
Similarity	Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily.
Subcellular Location	Cytoplasm. Nucleus. Cytoplasmic vesicle. Note: After dissociation upon AGTR stimulation, re-associates with ARRB2 on endocytic vesicles.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemisry)
At 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)
Staining Rat stomach tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of MKP-7 (Phospho-Ser446) using TNF- α treated A2780 whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-DUSP16 antibody	Dual specificity protein phosphatase involved in the inactivation of MAP kinases. Dephosphorylates MAPK10 bound to ARRB2.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	38372911
NCBI GeneID	80824
NCBI Accession #	NP_085143.1
NCBI GenBank Nucleotide #	NM_030640.2
UniProt Accession #	Q9BY84; Q547C7; Q9C0G3
Molecular Weight	73,102 Da
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
NCBI Protein Information	dual specificity protein phosphatase 16; MAPK phosphatase-7; MAP kinase phosphatase 7; mitogen-activated protein kinase phosphatase 7
UniProt Protein Name	Dual specificity protein phosphatase 16
UniProt Gene Name	DUSP16
UniProt Synonym Gene Names	KIAA1700; MKP7; MAP kinase phosphatase 7; MKP-7
UniProt Entry Name	DUS16_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.