

DUSP10 Rabbit pAb

Catalog # AP99224

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y6W6
Other Accession	Q9Y6W6
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52642
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DUSP10/MKP5
Epitope Specificity	161-260/482
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily. Contains 1 rhodanese domain. Contains 1 tyrosine-protein phosphatase domain.
SUBUNIT	Monomer. Interacts with MAPK14.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Mitogen-activated protein (MAP) kinases are a large class of proteins involved in signal transduction pathways that are activated by a range of stimuli and mediate a number of physiological and pathological changes in the cell. Dual specificity phosphatases (DSPs) are a subclass of the protein tyrosine phosphatase (PTP) gene superfamily, which are selective for dephosphorylating critical phosphothreonine and phosphotyrosine residues within MAP kinases. DSP gene expression is induced by a host of growth factors and/or cellular stresses, thereby negatively regulating MAP kinase superfamily members including MAPK/ERK, SAPK/JNK and p38. MKP-5 preferentially binds to p38, but also to SAPK/JNK. It is ubiquitously expressed and localizes to both the cytoplasm and the nucleus. MKP-5 has been implicated in cell proliferation and apoptosis, tumor invasion and immune responses.

Additional Information

Gene ID	11221
Other Names	MKP-5; MKP5; 2610306G15Rik; DUS10_HUMAN; DUSP10; Mitogen-activated protein kinase phosphatase 5 (MAP kinase phosphatase 5 MKP-5); 3.1.3.16; 3.1.3.48; DUS10_MOUSE; dual specificity phosphatase 10
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	DUSP10
Synonyms	MKP5
Function	Protein phosphatase involved in the inactivation of MAP kinases. Has a specificity for the MAPK11/MAPK12/MAPK13/MAPK14 subfamily. It preferably dephosphorylates p38.
Cellular Location	Cytoplasm. Nucleus.
Tissue Location	Expressed in keratinocytes (at protein level) (PubMed:29043977). Detected in brain (PubMed:16806267)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.