

DUSP6 Antibody

Rabbit mAb

Catalog # AP90447

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	Q16828
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	HH19; MKP3; PYST1; DUSP6; DUSP6a; Dual specificity phosphatase 6;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	42320

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human DUSP6
Description	MAP kinases are inactivated by dual-specificity protein phosphatases (DUSP) that differ in their substrate specificity, tissue distribution, inducibility by extracellular stimuli and cellular localization. DUSPs, also known as MAPK phosphatases (MKP), specifically dephosphorylate both threonine and tyrosine residues in MAPK P-loops and have been shown to play important roles in regulating the function of the MAPK family. At least 13 members of the family (DUSP1-10, DUSP14, DUSP16, and DUSP22) display unique substrate specificities for various MAP kinases.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	DUSP6
Synonyms	MKP3, PYST1
Function	Dual specificity protein phosphatase, which mediates dephosphorylation and inactivation of MAP kinases (PubMed: 8670865). Has a specificity for the ERK family (PubMed: 8670865). Plays an important role in alleviating chronic postoperative pain (By similarity). 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 (By similarity). Also important for dephosphorylation of MAPK1/3 in local wound tissue, which further contributes to resolution of acute pain (By similarity). Promotes cell

differentiation by regulating MAPK1/MAPK3 activity and regulating the expression of AP1 transcription factors (PubMed:[29043977](#)).

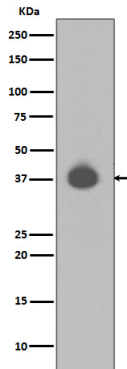
Cellular Location

Cytoplasm.

Tissue Location

Expressed in keratinocytes (at protein level).

Images



Western blot analysis of DUSP6 expression in NIH/3T3 cell lysate.

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Immunohistochemical analysis of paraffin-embedded human thyroid, using DUSP6 Antibody.

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