10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

DUSP6 Antibody
Rabbit mAb
Catalog # AP90447

Specification

DUSP6 Antibody - Product Information

Application	**WB, IHC, FC, ICC, IP**
Primary Accession	Q16828
Reactivity	**Rat**
Clonality	**Monoclonal**

Other Names
HH19; MKP3; PYST1; DUSP6; DUSP6a; Dual specificity phosphatase 6;

Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**42320 Da**

DUSP6 Antibody - Additional Information

Dilution	**WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A IP~~N/A**
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.**

DUSP6 Antibody - Protein Information

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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.

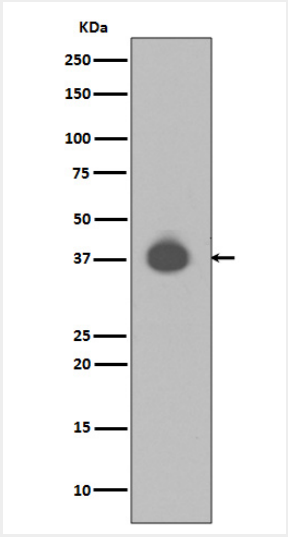
Tissue Location
Expressed in keratinocytes (at protein level).

DUSP6 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DUSP6 Antibody - Images



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