

DUSP6 Antibody

Rabbit mAb Catalog # AP90447

# Specification

# DUSP6 Antibody - Product Information

ApplicationWB, IHC, FC, ICC, IPPrimary AccessionQ16828ReactivityRatClonalityMonoclonalOther NamesHH19; MKP3; PYST1; DUSP6; DUSP6a; Dual specificity phosphatase 6;

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	42320 Da

# **DUSP6 Antibody - Additional Information**

Purification Immunogen	Affinity-chromatography A synthesized peptide derived from human
Description	DUSP6 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**

#### Name DUSP6

Synonyms MKP3, PYST1



#### Function

Inactivates MAP kinases. Has a specificity for the ERK family (PubMed:<a href="http://www.uniprot.org/citations/9858808" target="\_blank">9858808</a>). Plays an important role in alleviating chronic postoperative pain. 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:<a href="http://www.uniprot.org/citations/29043977" target="\_blank">29043977</a>).

Cellular Location Cytoplasm.

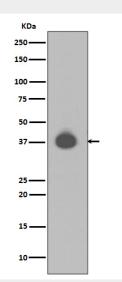
**Tissue Location** Expressed in keratinocytes (at protein level).

# **DUSP6 Antibody - Protocols**

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# DUSP6 Antibody - Images



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