

## **DUSP6 Polyclonal Antibody**

Catalog # AP63708

### **Specification**

## **DUSP6 Polyclonal Antibody - Product Information**

Application WB
Primary Accession Q16828
Reactivity Human

Reactivity Human, Rat, Mouse Rabbit

Clonality Polyclonal

## **DUSP6 Polyclonal Antibody - Additional Information**

**Gene ID 1848** 

#### **Other Names**

DUSP6; MKP3; PYST1; Dual specificity protein phosphatase 6; Dual specificity protein phosphatase PYST1; Mitogen-activated protein kinase phosphatase 3; MAP kinase phosphatase 3; MKP-3

### **Dilution**

WB~~WB 1:1000-3000

### **Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

# **Storage Conditions**

-20°C

## **DUSP6 Polyclonal Antibody - Protein Information**

Name DUSP6

Synonyms MKP3, PYST1

### **Function**

Dual specificity protein phosphatase, which mediates dephosphorylation and inactivation of MAP kinases (PubMed:<a href="http://www.uniprot.org/citations/8670865" target="\_blank">8670865</a>). Has a specificity for the ERK family (PubMed:<a href="http://www.uniprot.org/citations/8670865" target="\_blank">8670865</a>). 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:<a href="http://www.uniprot.org/citations/29043977" target="blank">29043977</a>).

## **Cellular Location**



Cytoplasm.

**Tissue Location** 

Expressed in keratinocytes (at protein level).

# **DUSP6 Polyclonal 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 Polyclonal Antibody - Images**



Western blot analysis of 1) HepG2, 2)3T3, 3) Rat Heart Tissue with DUSP6 Rabbit pAb diluted at 1:3,000.

# **DUSP6 Polyclonal Antibody - Background**

Inactivates MAP kinases. Has a specificity for the ERK family (PubMed:9858808). 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).