

**DUSP6 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17558A**

**Specification**

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**DUSP6 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q16828</a>
Other Accession	<a href="#">Q2KJ36</a> , <a href="#">NP_073143.2</a> , <a href="#">NP_001937.2</a>
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	42320
Antigen Region	59-88

**DUSP6 Antibody (N-term) - Additional Information**

**Gene ID** 1848

**Other Names**

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

**Target/Specificity**

This DUSP6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 59-88 amino acids from the N-terminal region of human DUSP6.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

DUSP6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**DUSP6 Antibody (N-term) - Protein Information**

**Name** DUSP6

**Synonyms** MKP3, PYST1

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

**Cellular Location**

Cytoplasm.

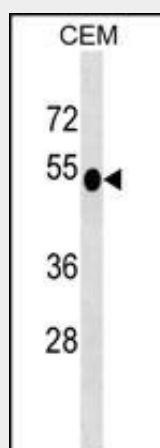
**Tissue Location**

Expressed in keratinocytes (at protein level).

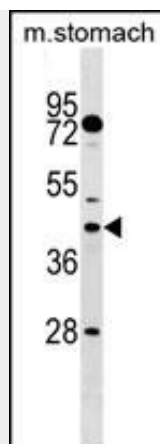
**DUSP6 Antibody (N-term) - Protocols**

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

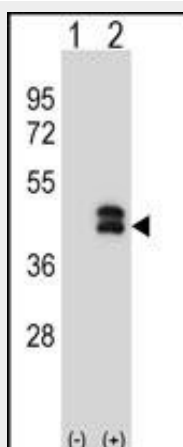
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**DUSP6 Antibody (N-term) - Images**

DUSP6 Antibody (N-term) (Cat. #AP17558a) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the DUSP6 antibody detected the DUSP6 protein (arrow).



DUSP6 Antibody (N-term) (Cat. #AP17558a) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the DUSP6 antibody detected the DUSP6 protein (arrow).



Western blot analysis of DUSP6 (arrow) using rabbit polyclonal DUSP6 Antibody (N-term) (Cat. #AP17558a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DUSP6 gene.

### **DUSP6 Antibody (N-term) - Background**

The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates ERK2, is expressed in a variety of tissues with the highest levels in heart and pancreas, and unlike most other members of this family, is localized in the cytoplasm. Two transcript variants encoding different isoforms have been found for this gene.

### **DUSP6 Antibody (N-term) - References**

Chiappinelli, K.B., et al. Gynecol. Oncol. 119(1):146-150(2010)  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Nunes-Xavier, C.E., et al. J. Biol. Chem. 285(34):26417-26430(2010)  
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Wang, Z., et al. Mol. Vis. 16, 1696-1704 (2010) :