10320 Camino Santa Fe, Suite G
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DUSP6 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17558A

Specification

DUSP6 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q16828
Other Accession	Q2KJ36, NP_073143.2, NP_001937.2
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
E~~Use at an assay dependent concentration.

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

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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.

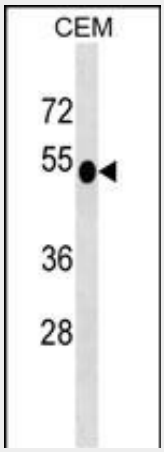
Tissue Location
Expressed in keratinocytes (at protein level).

DUSP6 Antibody (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 Cytomety
- 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).

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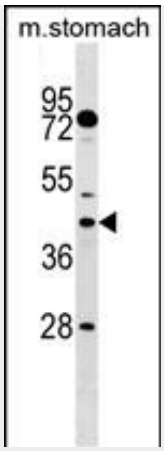
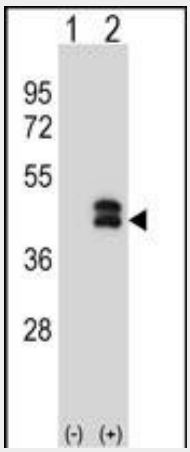


DUSP6 Antibody (N-term) (Cat. #AP17558a) western blot analysis in mouse stomach tissue lysates (35ug/lane).This demonstrates the DUSP6 antibody detected the DUSP6 protein (arrow).



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

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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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