

**DUSP10 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19967c****Specification**

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**DUSP10 Antibody (Center) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9Y6W6</a>
Other Accession	<a href="#">O9ESS0</a> , <a href="#">Q0IID7</a> , <a href="#">NP_653330.1</a>
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	52642
Antigen Region	204-232

**DUSP10 Antibody (Center) - Additional Information****Gene ID** 11221**Other Names**

Dual specificity protein phosphatase 10, Mitogen-activated protein kinase phosphatase 5, MAP kinase phosphatase 5, MKP-5, DUSP10, MKP5

**Target/Specificity**

This DUSP10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 204-232 amino acids from the Central region of human DUSP10.

**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**

DUSP10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**DUSP10 Antibody (Center) - Protein Information****Name** DUSP10

**Synonyms** MKP5

**Function** Protein phosphatase involved in the inactivation of MAP kinases. Has a specificity for the MAPK11/MAPK12/MAPK13/MAPK14 subfamily. It preferably dephosphorylates p38.

**Cellular Location**

Cytoplasm. Nucleus.

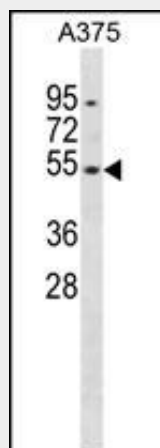
**Tissue Location**

Expressed in keratinocytes (at protein level) (PubMed:29043977). Detected in brain (PubMed:16806267)

**DUSP10 Antibody (Center) - 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](#)

**DUSP10 Antibody (Center) - Images**

DUSP10 Antibody (Center) (Cat. #AP19967c) western blot analysis in A375 cell line lysates (35ug/lane). This demonstrates the DUSP10 antibody detected the DUSP10 protein (arrow).

**DUSP10 Antibody (Center) - Background**

Dual specificity protein phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the MAPK superfamily (MAPK/ERK, SAPK/JNK, p38), which is associated with cellular proliferation and differentiation. Different members of this family of dual specificity phosphatases show distinct substrate specificities for MAPKs, different tissue distribution and subcellular localization,

and different modes of inducibility of their expression by extracellular stimuli. This gene product binds to and inactivates p38 and SAPK/JNK, but not MAPK/ERK. Its subcellular localization is unique; it is evenly distributed in both the cytoplasm and the nucleus. This gene is widely expressed in various tissues and organs, and its expression is elevated by stress stimuli. Three transcript variants encoding two different isoforms have been found for this gene.

#### **DUSP10 Antibody (Center) - References**

Bailey, S.D., et al. Diabetes Care (2010) In press :  
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)  
Tephly, L.A., et al. Am. J. Respir. Cell Mol. Biol. 39(1):113-123(2008)  
Teng, C.H., et al. J. Biol. Chem. 282(39):28395-28407(2007)