

**DUSP13 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18781b****Specification**

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**DUSP13 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q6B8I1</a>
Other Accession	<a href="#">NP_001007272.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	20658
Antigen Region	147-173

**DUSP13 Antibody (C-term) - Additional Information****Gene ID** 128854680;51207**Other Names**

Dual specificity protein phosphatase 13 isoform A, DUSP13A, Branching-enzyme interacting DSP, Muscle-restricted DSP, MDSP, DUSP13, BEDP, DUSP13A, MDSP

**Target/Specificity**

This DUSP13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 147-173 amino acids from the C-terminal region of human DUSP13.

**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**

DUSP13 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**DUSP13 Antibody (C-term) - Protein Information****Name** DUSP13A

**Synonyms** BEDP, DUSP13, MDSP

**Function** Probable protein tyrosine phosphatase. Has phosphatase activity with synthetic substrates (PubMed:[15252030](#), PubMed:[29106959](#)). Has a phosphatase activity-independent regulatory role in MAP3K5/ASK1- mediated apoptosis, preventing MAP3K5/ASK1 inhibition by AKT1. Shows no phosphatase activity on MAPK1/ERK2, MAPK8/JNK, MAPK14/p38 and MAP3K5/ASK1.

**Cellular Location**

Cytoplasm.

**Tissue Location**

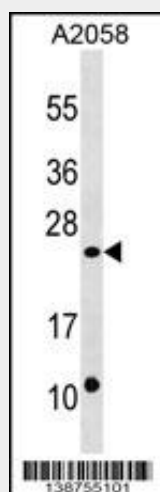
Skeletal muscle specific.

**DUSP13 Antibody (C-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](#)

**DUSP13 Antibody (C-term) - Images**



DUSP13 Antibody (C-term)(Cat. #AP18781b) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the DUSP13 antibody detected the DUSP13 protein (arrow).

**DUSP13 Antibody (C-term) - Background**

Members of the protein-tyrosine phosphatase superfamily cooperate with protein kinases to regulate cell proliferation and differentiation. This superfamily is separated into two families based on the substrate that is dephosphorylated. One family, the dual specificity phosphatases (DSPs) acts on both phosphotyrosine and phosphoserine/threonine residues. This gene encodes different

but related DSP proteins through the use of non-overlapping open reading frames, alternate splicing, and presumed different transcription promoters. Expression of the distinct proteins from this gene has been found to be tissue specific and the proteins may be involved in postnatal development of specific tissues. A protein encoded by the upstream ORF was found in skeletal muscle, whereas the encoded protein from the downstream ORF was found only in testis. In mouse, a similar pattern of expression was found. Multiple alternatively spliced transcript variants were described, but the full-length sequence of only some were determined.

#### **DUSP13 Antibody (C-term) - References**

Kim, S.J., et al. Proteins 66(1):239-245(2007)  
Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006)  
Barrios-Rodiles, M., et al. Science 307(5715):1621-1625(2005)  
Chen, H.H., et al. J. Biol. Chem. 279(40):41404-41413(2004)  
Deloukas, P., et al. Nature 429(6990):375-381(2004)