

# DUSP13-M1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8455a

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q9UII6</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB5907
<b>Calculated MW</b>	22149
<b>Antigen Region</b>	1-30

## Additional Information

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<b>Gene ID</b>	51207
<b>Other Names</b>	Dual specificity protein phosphatase 13 isoform B, DUSP13B, Dual specificity phosphatase SKRP4, Testis- and skeletal-muscle-specific DSP, DUSP13, DUSP13B, TMDP
<b>Target/Specificity</b>	This DUSP13-M1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human DUSP13-M1.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	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.
<b>Precautions</b>	DUSP13-M1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	DUSP13B ( <a href="#">HGNC:19681</a> )
<b>Synonyms</b>	DUSP13, SKRP4, TMDP
<b>Function</b>	Dual specificity phosphatase that dephosphorylates MAPK8/JNK and

MAPK14/p38, but not MAPK1/ERK2, in vitro (PubMed:[21360282](#)). Exhibits intrinsic phosphatase activity towards both phospho- seryl/threonyl and -tyrosyl residues, with similar specific activities in vitro (PubMed:[10585869](#)).

#### Tissue Location

Highly expressed in the testis (at protein level) (PubMed:10585869, PubMed:15252030). Also found in the skeletal muscle (PubMed:15252030).

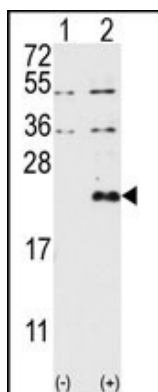
## Background

Dual-specificity phosphatases, a subfamily of protein-tyrosine phosphatases, play important roles in signal transduction, cell cycle progression, and tumor suppression. The cDNA encoding a novel phosphatase, PIR1, phosphatase that interacts with RNA/RNP complex 1. Sequence analysis revealed that the predicted 329-amino acid protein has homology to several dual-specificity phosphatases and contains 2 stretches of arginine-rich sequence similar to those found in some RNA-binding proteins. In vitro, recombinant protein displays protein-tyrosine phosphatase activity and binds directly to RNA.

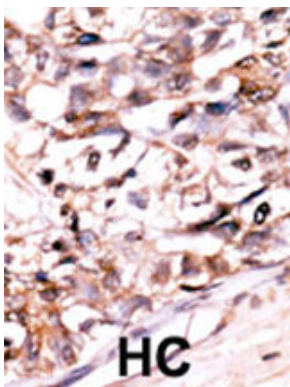
## References

Nakamura K., Shima H., Watanabe M., Haneji T., Kikuchi K. Biochem. J. 344:819-825(1999).  
Deloukas et al. Nature 429:375-381(2004).  
Strausberg et al. Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

## Images



Western blot analysis of DUSP13 (arrow) using DUSP13-M1 Antibody (N-term) (Cat.#AP8455a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the DUSP13 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

## Citations

- [EZH2 inhibition reactivates epigenetically silenced and normalizes molecular and electrophysiological abnormalities in fragile X syndrome neurons](#)
- [Myogenin Regulates DUSP13 to Inhibit Apoptosis Induced by Reactive Oxygen Species](#)



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