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DUSP13-M1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP8455a

Specification

DUSP13-M1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q9UII6

DUSP13-M1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 51207

Other Names
Dual specificity protein phosphatase 13 isoform B, DUSP13B, Dual specificity phosphatase SKRP4, Testis- and skeletal-muscle-specific DSP, DUSP13, DUSP13B, TMDP

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8455a was selected from the N-term region of human DUSP13-M1 (N-term). A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DUSP13-M1 Antibody (N-term) Blocking peptide - Protein Information

Name DUSP13B (HGNC:19681)

Synonyms DUSP13, SKRP4, TMDP

Function
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).

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DUSP13-M1 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

DUSP13-M1 Antibody (N-term) Blocking peptide - Images

DUSP13-M1 Antibody (N-term) Blocking peptide - 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.

DUSP13-M1 Antibody (N-term) Blocking peptide - 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).