

DUSP24 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8875b**Specification**

DUSP24 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O9Y6J8](#)**DUSP24 Antibody (C-term) Blocking Peptide - Additional Information**

Gene ID 51657

Other Names

Serine/threonine/tyrosine-interacting-like protein 1, Dual specificity phosphatase inhibitor MK-STYX, Dual specificity protein phosphatase 24, Map kinase phosphatase-like protein MK-STYX, STYXL1, DUSP24, MKSTYX

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8875b](/products/AP8875b) was selected from the C-term region of human DUSP24. 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.

DUSP24 Antibody (C-term) Blocking Peptide - Protein Information

Name STYXL1

Synonyms DUSP24, MKSTYX

Function

Catalytically inactive phosphatase (PubMed: <http://www.uniprot.org/citations/20180778> target="_blank">20180778, PubMed: <http://www.uniprot.org/citations/23163895> target="_blank">23163895). By binding to G3BP1, inhibits the formation of G3BP1- induced stress granules (PubMed: <http://www.uniprot.org/citations/20180778> target="_blank">20180778, PubMed: <http://www.uniprot.org/citations/23163895> target="_blank">23163895). Does not act by protecting the dephosphorylation of G3BP1 at 'Ser-149' (PubMed: <http://www.uniprot.org/citations/23163895> target="_blank">23163895). Inhibits PTPMT1 phosphatase activity (PubMed: <http://www.uniprot.org/citations/23163895> target="_blank">23163895).

[24709986](http://www.uniprot.org/citations/24709986)). By inhibiting PTPMT1, positively regulates intrinsic apoptosis (PubMed:[21262771](http://www.uniprot.org/citations/21262771)). May play a role in the formation of neurites during neuronal development (PubMed:[29250526](http://www.uniprot.org/citations/29250526)).

Cellular Location

Mitochondrion matrix

DUSP24 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DUSP24 Antibody (C-term) Blocking Peptide - Images**DUSP24 Antibody (C-term) Blocking Peptide - Background**

DUSP24 is probable pseudophosphatase. It contains a Ser residue instead of a conserved Cys residue in the dsPTPase catalytic loop which probably renders it catalytically inactive as a phosphatase. The binding pocket may be however sufficiently preserved to bind phosphorylated substrates, and maybe protect them from phosphatases.

DUSP24 Antibody (C-term) Blocking Peptide - References

Ewing,R.M., et.al., Mol. Syst. Biol. 3, 89 (2007)