

DUSP14 Blocking Peptide (Center)

Synthetic peptide

Catalog # BP20179c

Specification

DUSP14 Blocking Peptide (Center) - Product Information

Primary Accession

[O95147](#)

Other Accession

[Q17QM8](#), [NP_008957.1](#)**DUSP14 Blocking Peptide (Center) - Additional Information****Gene ID** 11072**Other Names**

Dual specificity protein phosphatase 14, MKP-1-like protein tyrosine phosphatase, MKP-L, Mitogen-activated protein kinase phosphatase 6, MAP kinase phosphatase 6, MKP-6, DUSP14, MKP6

Target/Specificity

The synthetic peptide sequence is selected from aa 91-105 of HUMAN DUSP14

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.

DUSP14 Blocking Peptide (Center) - Protein Information**Name** DUSP14**Synonyms** MKP6**Function**

Involved in the inactivation of MAP kinases. Dephosphorylates ERK, JNK and p38 MAP-kinases. Plays a negative role in TCR signaling by dephosphorylating MAP3K7 adapter TAB1 leading to its inactivation (PubMed: <http://www.uniprot.org/citations/24403530> target="_blank">24403530).

DUSP14 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

DUSP14 Blocking Peptide (Center) - Images

DUSP14 Blocking Peptide (Center) - Background

Dual-specificity phosphatases (DUSPs) constitute a large heterogeneous subgroup of the type I cysteine-based protein-tyrosine phosphatase superfamily. DUSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. They have been implicated as major modulators of critical signaling pathways. DUSP14 contains the consensus DUSP C-terminal catalytic domain but lacks the N-terminal CH2 domain found in the MKP (mitogen-activated protein kinase phosphatase) class of DUSPs (see MIM 600714) (summary by Patterson et al., 2009 [PubMed 19228121]).

DUSP14 Blocking Peptide (Center) - References

Thye, T., et al. Nat. Genet. 42(9):739-741(2010)
Lountos, G.T., et al. Acta Crystallogr. D Biol. Crystallogr. 65 (PT 10), 1013-1020 (2009) :
Patterson, K.I., et al. Biochem. J. 418(3):475-489(2009)
Elass, E., et al. FEBS Lett. 582(3):445-450(2008)
Nyati, M.K., et al. Cancer Res. 66(24):11554-11559(2006)