10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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: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)