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DUSP2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP9084b

Specification

DUSP2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q05923

DUSP2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 1844

Other Names
Dual specificity protein phosphatase 2, Dual specificity protein phosphatase PAC-1, DUSP2, PAC1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP9084b was selected from the C-term region of human DUSP2. 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.

DUSP2 Antibody (C-term) Blocking Peptide - Protein Information

Name DUSP2 (HGNC:3068)

Synonyms PAC1

Function
Dephosphorylates both phosphorylated Thr and Tyr residues in MAPK1, and dephosphorylation of phosphotyrosine is slightly faster than that of phosphothreonine (PubMed:8107850). Can dephosphorylate MAPK1 (By similarity).

Cellular Location
Nucleus.

Tissue Location
Expressed in hematopoietic tissues.

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DUSP2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DUSP2 Antibody (C-term) Blocking Peptide - Images

DUSP2 Antibody (C-term) Blocking Peptide - Background

DUSP2 is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli.

DUSP2 Antibody (C-term) Blocking Peptide - References

Caunt,C.J., et.al., J. Biol. Chem. 283 (10), 6241-6252 (2008)Baranyai,R., et.al., Neuropsychobiology 57 (3), 146-150 (2008)