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

DUSP5 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8448a

Specification

DUSP5 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q16690

DUSP5 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 1847

Other Names
Dual specificity protein phosphatase 5, Dual specificity protein phosphatase hVH3, DUSP5, VH3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8448a was selected from the N-term region of human DUSP5. 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.

DUSP5 Antibody (N-term) Blocking Peptide - Protein Information

Name DUSP5

Synonyms VH3

Function
Dual specificity protein phosphatase; active with phosphotyrosine, phosphoserine and phosphothreonine residues. The highest relative activity is toward ERK1.

Cellular Location
Nucleus.

DUSP5 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DUSP5 Antibody (N-term) Blocking Peptide - Images

DUSP5 Antibody (N-term) Blocking Peptide - Background

DUSP5 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. DUSP5 inactivates ERK1, is expressed in a variety of tissues with the highest levels in pancreas and brain, and is localized in the nucleus.

DUSP5 Antibody (N-term) Blocking Peptide - References

Mandl, M., et al., Mol. Cell. Biol. 25(5):1830-1845 (2005).Ueda, K., et al., Oncogene 22(36):5586-5591 (2003).Kwak, S.P., et al., J. Biol. Chem. 270(3):1156-1160 (1995).Ishibashi, T., et al., J. Biol. Chem. 269(47):29897-29902 (1994).Martell, K.J., et al., Genomics 22(2):462-464 (1994).