

DUSP3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8446a**Specification**

DUSP3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P51452](#)**DUSP3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 1845**Other Names**

Dual specificity protein phosphatase 3, Dual specificity protein phosphatase VHR, Vaccinia H1-related phosphatase, VHR, DUSP3, VHR

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8446a](/product/products/AP8446a) was selected from the C-term region of human DUSP3. 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.

DUSP3 Antibody (C-term) Blocking Peptide - Protein Information**Name** DUSP3**Synonyms** VHR**Function**

Shows activity both for tyrosine-protein phosphate and serine-protein phosphate, but displays a strong preference toward phosphotyrosines. Specifically dephosphorylates and inactivates ERK1 and ERK2.

Cellular Location

Nucleus

DUSP3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DUSP3 Antibody (C-term) Blocking Peptide - Images

DUSP3 Antibody (C-term) Blocking Peptide - Background

DUSP3 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. The gene for this protein maps in a region that contains the BRCA1 locus which confers susceptibility to breast and ovarian cancer.

DUSP3 Antibody (C-term) Blocking Peptide - References

Alonso, A., et al., Nat. Immunol. 4(1):44-48 (2003). Alonso, A., et al., J. Biol. Chem. 276(7):4766-4771 (2001). Todd, J.L., et al., J. Biol. Chem. 274(19):13271-13280 (1999). Kamb, A., et al., Genomics 23(1):163-167 (1994). Folander, K., et al., Genomics 23(1):295-296 (1994).