

DUSP4 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8447a**Specification**

DUSP4 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q13115](#)**DUSP4 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 1846**Other Names**

Dual specificity protein phosphatase 4, Dual specificity protein phosphatase hVH2, Mitogen-activated protein kinase phosphatase 2, MAP kinase phosphatase 2, MKP-2, DUSP4, MKP2, VH2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8447a](/product/products/AP8447a) was selected from the Center region of human DUSP4. 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.

DUSP4 Antibody (Center) Blocking Peptide - Protein Information**Name** DUSP4**Synonyms** MKP2, VH2**Function**

Regulates mitogenic signal transduction by dephosphorylating both Thr and Tyr residues on MAP kinases ERK1 and ERK2.

Cellular Location

Nucleus.

DUSP4 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DUSP4 Antibody (Center) Blocking Peptide - Images

DUSP4 Antibody (Center) Blocking Peptide - Background

DUSP4 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. DUSP4 inactivates ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus.

DUSP4 Antibody (Center) Blocking Peptide - References

Chen, P., et al., J. Biol. Chem. 276(31):29440-29449 (2001). Smith, A., et al., Genomics 42(3):524-527 (1997). Chu, Y., et al., J. Biol. Chem. 271(11):6497-6501 (1996). King, A.G., et al., Oncogene 11(12):2553-2563 (1995). Guan, K.L., et al., J. Biol. Chem. 270(13):7197-7203 (1995).