

**DUSP9 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8452a****Specification**

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**DUSP9 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q99956](#)**DUSP9 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1852**Other Names**

Dual specificity protein phosphatase 9, Mitogen-activated protein kinase phosphatase 4, MAP kinase phosphatase 4, MKP-4, DUSP9, MKP4

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8452a](/product/products/AP8452a) was selected from the N-term region of human DUSP9. 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.

**DUSP9 Antibody (N-term) Blocking Peptide - Protein Information****Name** DUSP9**Synonyms** MKP4**Function**

Inactivates MAP kinases. Has a specificity for the ERK family.

**Cellular Location**

Cytoplasm.

**DUSP9 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **DUSP9 Antibody (N-term) Blocking Peptide - Images**

#### **DUSP9 Antibody (N-term) Blocking Peptide - Background**

DUSP9 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 is 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. DUSP9 shows selectivity for members of the ERK family of MAP kinases, is expressed only in placenta, kidney, and fetal liver, and is localized to the cytoplasm and nucleus.

#### **DUSP9 Antibody (N-term) Blocking Peptide - References**

Brenner, V., et al., Genomics 44(1):8-14 (1997). Mada, M., et al., J. Biol. Chem. 272(8):5141-5151 (1997).