

DUSP12 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16903c**Specification**

DUSP12 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9UNI6](#)**DUSP12 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 11266**Other Names**

Dual specificity protein phosphatase 12, Dual specificity tyrosine phosphatase YVH1, DUSP12

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.

DUSP12 Antibody (Center) Blocking Peptide - Protein Information**Name** DUSP12**Function**

Dual specificity phosphatase; can dephosphorylate both phosphotyrosine and phosphoserine or phosphothreonine residues. Can dephosphorylate glucokinase (in vitro) (By similarity). Has phosphatase activity with the synthetic substrate 6,8-difluoro-4-methylumbelliferyl phosphate and other in vitro substrates (PubMed:10446167, PubMed:24531476).

Cellular Location

Nucleus. Cytoplasm, cytosol. Note=Primarily nuclear. Detected in a mesh-like pattern in the cytosol.

Tissue Location

Ubiquitous, highest expression in spleen, testis, ovary, and peripheral blood leukocytes and lower expression in liver and lung

DUSP12 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DUSP12 Antibody (Center) Blocking Peptide - Images

DUSP12 Antibody (Center) Blocking Peptide - Background

The protein encoded by this gene is a member of the dualspecificity 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. This gene product is the human ortholog of the *Saccharomyces cerevisiae* YVH1 protein tyrosine phosphatase. It is localized predominantly in the nucleus, and is novel in that it contains, and is regulated by a zinc finger domain.

DUSP12 Antibody (Center) Blocking Peptide - References

Biernacki, M.A., et al. Cancer Res. 70(3):906-915(2010) Bonham, C.A., et al. J. Biol. Chem. 284(34):22853-22864(2009) Sharda, P.R., et al. Biochem. J. 418(2):391-401(2009) Gao, F., et al. Zhonghua Yi Xue Za Zhi 88(32):2250-2253(2008) Hasstedt, S.J., et al. Ann. Hum. Genet. 72 (PT 2), 163-169 (2008) :