

Mouse Ksr1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP14150b**Specification**

Mouse Ksr1 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q61097](#)**Mouse Ksr1 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 16706**Other Names**

Kinase suppressor of Ras 1, mKSR1, Protein Hb, Ksr1, Ksr

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14150b was selected from the C-term region of Mouse Ksr1. 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.

Mouse Ksr1 Antibody (C-term) Blocking peptide - Protein Information**Name** Ksr1**Synonyms** Ksr**Function**

Part of a multiprotein signaling complex which promotes phosphorylation of Raf family members and activation of downstream MAP kinases (PubMed:10409742, PubMed:12932319, PubMed:21102438, PubMed:21441104). Independently of its kinase activity, acts as MAP2K1/MEK1 and MAP2K2/MEK2-dependent allosteric activator of BRAF; upon binding to MAP2K1/MEK1 or MAP2K2/MEK2, dimerizes with BRAF and promotes BRAF-mediated phosphorylation of MAP2K1/MEK1 and/or MAP2K2/MEK2 (By similarity). Promotes activation of MAPK1 and/or MAPK3, both in response to EGF and to cAMP (PubMed:21102438). Its kinase

activity is unsure (PubMed:21441104). Some protein kinase activity has been detected in vitro, however the physiological relevance of this activity is unknown (PubMed:21441104).

Cellular Location

Cytoplasm. Membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein. Cell projection, ruffle membrane. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8IVT5}. Note=In unstimulated cells, where the phosphorylated form is bound to a 14-3-3 protein, sequestration in the cytoplasm occurs. Following growth factor treatment, the protein is free for membrane translocation, and it moves from the cytoplasm to the cell periphery.

Tissue Location

Expressed in brain, spleen and testis. Isoform 1 is highly expressed spleen and weakly in testis, and isoform 2 is highly expressed in brain and weakly in testis.

Mouse Ksr1 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Ksr1 Antibody (C-term) Blocking peptide - Images

Mouse Ksr1 Antibody (C-term) Blocking peptide - Background

Location-regulated scaffolding protein connecting MEK to RAF. Promotes MEK and RAF phosphorylation and activity through assembly of an activated signaling complex. By itself, it has no demonstrated kinase activity.

Mouse Ksr1 Antibody (C-term) Blocking peptide - References

Costanzo-Garvey, D.L., et al. Cell Metab. 10(5):366-378(2009)McKay, M.M., et al. Proc. Natl. Acad. Sci. U.S.A. 106(27):11022-11027(2009)Razidlo, G.L., et al. J. Biol. Chem. 284(11):6705-6715(2009)Giurisato, E., et al. Mol. Cell. Biol. 29(6):1554-1564(2009)Casar, B., et al. Mol. Cell. Biol. 29(5):1338-1353(2009)