

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

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**Mouse Ksr1 Antibody (C-term) Blocking peptide - Product Information**Primary 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:<a href="http://www.uniprot.org/citations/10409742" target="\_blank">10409742</a>, PubMed:<a href="http://www.uniprot.org/citations/12932319" target="\_blank">12932319</a>, PubMed:<a href="http://www.uniprot.org/citations/21102438" target="\_blank">21102438</a>, PubMed:<a href="http://www.uniprot.org/citations/21441104" target="\_blank">21441104</a>). 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:<a href="http://www.uniprot.org/citations/21102438" target="\_blank">21102438</a>). Its kinase

activity is unsure (PubMed:<a href="http://www.uniprot.org/citations/21441104" target="\_blank">21441104</a>). Some protein kinase activity has been detected in vitro, however the physiological relevance of this activity is unknown (PubMed:<a href="http://www.uniprot.org/citations/21441104" target="\_blank">21441104</a>).

#### **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)