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Mouse Ksr1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14150B

Specification

Mouse Ksr1 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q61097
Other Accession	NP_038599.1
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**96755**
Antigen Region	**719-747**

Mouse Ksr1 Antibody (C-term) - Additional Information

Gene ID 16706

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

Target/Specificity
This Mouse Ksr1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 719-747 amino acids from the C-terminal region of mouse Ksr1.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Mouse Ksr1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Ksr1 Antibody (C-term) - 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.

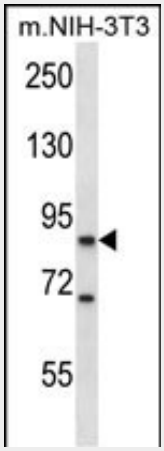
Tissue Location
Expressed in brain, spleen and testis. Isoform 1 is highly expressed spleen and weakly in testis, and isoform 2 is highly expressed in brain and weakly in testis.

Mouse Ksr1 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Mouse Ksr1 Antibody (C-term) - Images



Mouse Ksr1 Antibody (C-term) (Cat. #AP14150b) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the Ksr1 antibody detected the Ksr1 protein (arrow).

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Mouse Ksr1 Antibody (C-term) - 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) - 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)