

Recombinant Anti-KSR1 Rabbit mAb

Catalog # AP95118

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	Q8IVT5
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal
Calculated MW	102160

Additional Information

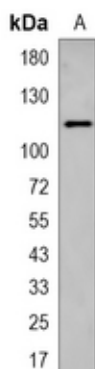
Gene ID	8844
Other Names	KSR; Kinase suppressor of Ras 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human KSR1 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

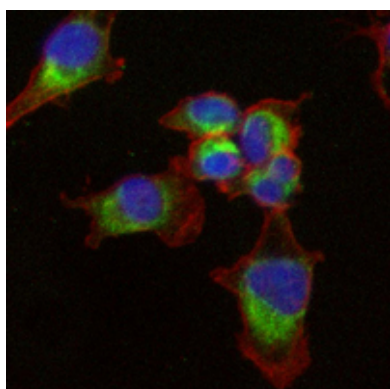
Name	KSR1
Synonyms	KSR
Function	Part of a multiprotein signaling complex which promotes phosphorylation of Raf family members and activation of downstream MAP kinases (By similarity). Independently of its kinase activity, acts as MAP2K1/MEK1 and MAP2K2/MEK2-dependent allosteric activator of BRAF; upon binding to MAP2K1/MEK1 or MAP2K2/MEK2, dimerizes with BRAF and promotes BRAF-mediated phosphorylation of MAP2K1/MEK1 and/or MAP2K2/MEK2 (PubMed: 29433126). Promotes activation of MAPK1 and/or MAPK3, both in response to EGF and to cAMP (By similarity). Its kinase activity is unsure (By similarity). Some protein kinase activity has been detected in vitro, however the physiological relevance of this activity is unknown (By similarity).
Cellular Location	Cytoplasm. Membrane; Peripheral membrane protein. Cell membrane {ECO:0000250 UniProtKB:Q61097}; Peripheral membrane protein {ECO:0000250 UniProtKB:Q61097}. Cell projection, ruffle membrane {ECO:0000250 UniProtKB:Q61097}. Endoplasmic reticulum membrane.

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.

Images



Western blot analysis of KSR1 expression in HEK293 (A) whole cell lysates. (Predicted band size: 102 kD; Observed band size: 120 kD)



Immunofluorescent analysis of KSR1 staining in HEK293 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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