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Anti-KSR2 Antibody

Rabbit polyclonal antibody to KSR2
Catalog # AP60895

Product Information

Application	WB, IP, IF/IC, IHC
Primary Accession	Q6VAB6
Other Accession	Q3UVC0
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	107632

Additional Information

Gene ID	283455
Other Names	Kinase suppressor of Ras 2; hKSR2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human KSR2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/100), IF/IC (1/100 - 1/500), IP (1/10 - 1/100) IP~~N/A IF/IC~~N/A IHC~~WB (1/500 - 1/1000), IHC (1/50 - 1/100), IF/IC (1/100 - 1/500), IP (1/10 - 1/100)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

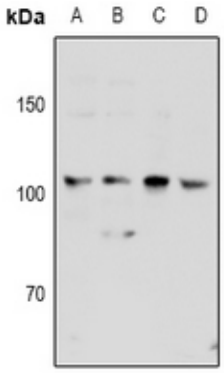
Name	KSR2 (HGNC:18610)
Function	Location-regulated scaffold connecting MEK to RAF. Has very low protein kinase activity and can phosphorylate MAP2K1 at several Ser and Thr residues with very low efficiency (in vitro). Acts as MAP2K1/MEK1-dependent allosteric activator of BRAF; upon binding to MAP2K1/MEK1, dimerizes with BRAF and promotes BRAF-mediated phosphorylation of MAP2K1/MEK1 (PubMed:29433126). Interaction with BRAF enhances KSR2-mediated phosphorylation of MAP2K1 (in vitro). Blocks MAP3K8 kinase activity and MAP3K8-mediated signaling. Acts as a negative regulator of MAP3K3-mediated activation of ERK, JNK and NF- kappa-B pathways, inhibiting MAP3K3-mediated interleukin-8 production. Cytoplasm. Membrane; Peripheral membrane protein

Cellular Location
Tissue Location Mainly expressed in brain and kidney.

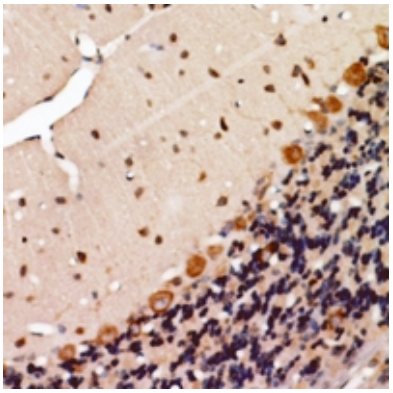
Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human KSR2. The exact sequence is proprietary.

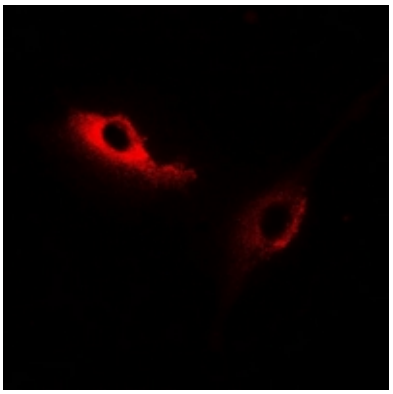
Images



Western blot analysis of KSR2 expression in Hela (A), HEK293T (B), A549 (C), mouse brain (D) whole cell lysates.



Immunohistochemical analysis of KSR2 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of KSR2 staining in HeLa 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 hidified chamber. Cells were washed with PBST and incubated with Alexa Fluor 647-conjugated secondary antibody (red) in PBS at room temperature in the dark.