10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KSR2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11443b

Product Information

Application	IHC-P, WB, FC, E
Primary Accession	Q6VAB6
Other Accession	NP_775869.3
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB09886
Calculated MW	107632
Antigen Region	603-638

Additional Information

Gene ID	283455
Other Names	Kinase suppressor of Ras 2, hKSR2, KSR2
Target/Specificity	This KSR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 603-638 amino acids from the C-terminal region of human KSR2.
Dilution	IHC-P~~1:100~500 WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
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	KSR2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.
Cellular Location	Cytoplasm. Membrane; Peripheral membrane protein
Tissue Location	Mainly expressed in brain and kidney.

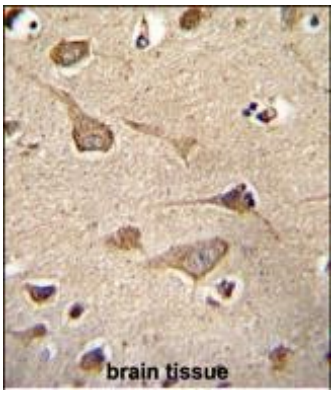
Background

Location-regulated scaffold connecting MEK to RAF. 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.

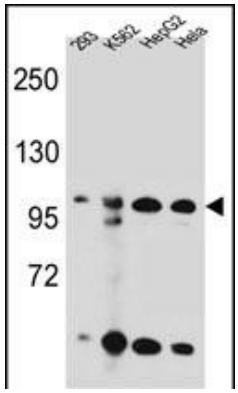
References

Bailey, S.D., et al. Diabetes Care (2010) In press :
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Liu, L., et al. Biochim. Biophys. Acta 1794(10):1485-1495(2009)
Zemunik, T., et al. Croat. Med. J. 50(1):23-33(2009)

Images

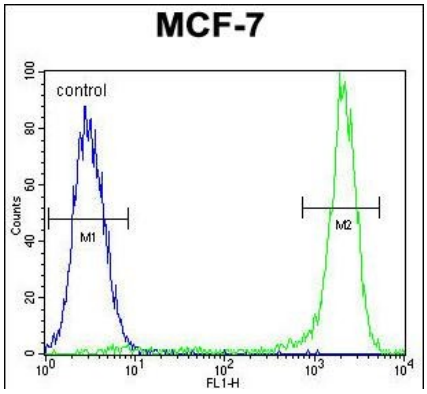


KSR2 Antibody (C-term) (Cat. #AP11443b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of KSR2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



KSR2 Antibody (C-term) (Cat. #AP11443b) western blot analysis in 293,K562,HepG2,Hela cell line lysates (35ug/lane).This demonstrates the KSR2 antibody detected the KSR2 protein (arrow).

KSR2 Antibody (C-term) (Cat. #AP11443b) flow cytometric analysis of MCF-7 cells (right histogram) compared to a



negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.