Rabbit KSR2 Polyclonal Antibody | anti-KSR2 antibody

Phospho-KSR2 (Thr497) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31343	**Rabbit**	**Human, Mouse, RatPredicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Chicken (91%), Xenopus (91%)**	**Western Blot, Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

KSR2; Polyclonal Antibody; Phospho-KSR2 (Thr497) Antibody; FLJ25965; hKSR 2; hKSR2; Kinase suppressor of Ras 2; KSR 2; Ksr2; KSR2_HUMAN; anti-KSR2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Chicken (91%), Xenopus (91%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-KSR2 (Thr497) Antibody detects endogenous levels of KSR2 only when phosphorylated at Thr497. Tissue Specificity: Mainly expressed in brain and kidney.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-KSR2 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human KSR2 around the phosphorylation site of Thr497.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated on Ser-474 by MARK3.
Subunit Structure	Heterodimerizes (via N-terminus) with BRAF (via N-terminus) in a MAP2K1/MEK1-dependent manner. Interacts with BRAF; this increases the low intrinsic protein kinase activity of KSR2. Interacts with MAP2K1, forming a heterodimer that can dimerize to form a heterotetramer. Interacts with MAP3K8, MAPK, RAS and RAF.
Similarity	The protein kinase domain is predicted to be catalytically inactive and seems to have very low intrinsic kinase activity. This low kinase activity can be increased by interaction with BRAF.Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.
Subcellular Location	Cytoplasm. Membrane>Peripheral membrane protein.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IHC (Immunohistochemistry)
At 1/100 staining Human kidney cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohistochemistry)
At 1/100 staining Human ovarian cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohistchemistry)
At 1/100 staining Mouse spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohistochemistry)
At 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohistochemistry)
At 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

IHC (Immunohistchemistry)
At 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-KSR2 antibody	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. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167621456
NCBI GeneID	283455
NCBI Accession #	NP_775869.3
NCBI GenBank Nucleotide #	NM_173598.4
UniProt Accession #	Q6VAB6; Q3B828; Q8N775; A0PJT2
Molecular Weight	107,632 Da
NCBI Official Full Name	kinase suppressor of Ras 2
NCBI Official Synonym Full Names	kinase suppressor of ras 2
NCBI Official Symbol	KSR2
NCBI Protein Information	kinase suppressor of Ras 2
UniProt Protein Name	Kinase suppressor of Ras 2

UniProt Gene Name	**KSR2**
UniProt Synonym Gene Names	hKSR2
UniProt Entry Name	KSR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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