



# Ksr-1 Monoclonal Antibody

<b>Catalog No</b>	BYmab-14810
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	KSR1
<b>Protein Name</b>	Kinase suppressor of Ras 1
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human KSR. AA range:358-407
<b>Specificity</b>	Ksr-1 Monoclonal Antibody detects endogenous levels of Ksr-1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	KSR1; KSR; Kinase suppressor of Ras 1
<b>Observed Band</b>	115kD
<b>Cell Pathway</b>	Cytoplasm . Membrane ; Peripheral membrane protein . Cell membrane ; Peripheral membrane protein . Cell projection, ruffle membrane . Endoplasmic reticulum membrane . 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. .
<b>Tissue Specificity</b>	Brain,Epithelium,Platelet,Synovial membrane,
<b>Function</b>	caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,function: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.,PTM:Phosphorylated on Ser-309 and, to a higher extent, on Ser-404 by MARK3. Dephosphorylated on Ser-404 by PPP2CA. In resting cells,

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phosphorylated KSR1 is cytoplasmic and in stimulated cells, dephosphorylated KSR1 is membrane-associated.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.,similarity:Contains 1 phorbol-ester/DAG-type zinc finger.,similarity:Contains 1 protein kinase domain.,subcellular location:In unstimulated cells, where the phosphorylated form is bound to a 14-3-3 protein, sequestr

#### Background

caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,function: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.,PTM:Phosphorylated on Ser-309 and, to a higher extent, on Ser-404 by MARK3. Dephosphorylated on Ser-404 by PPP2CA. In resting cells, phosphorylated KSR1 is cytoplasmic and in stimulated cells, dephosphorylated KSR1 is membrane-associated.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.,similarity:Contains 1 phorbol-ester/DAG-type zinc finger.,similarity:Contains 1 protein kinase domain.,subcellular location: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.,subunit:Interacts with HSPCA/HSP90, YWHAB/14-3-3, CDC37, MAP2K/MEK, MARK3, PPP2R1A and PPP2CA. Also interacts with RAF and MAPK/ERK, in a Ras-dependent manner (By similarity). The binding of 14-3-3 proteins to phosphorylated KSR prevents the membrane localization.,

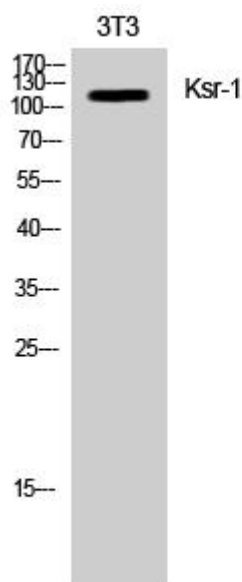
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using Ksr-1 Monoclonal Antibody

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