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KD-Validated Anti-KSR1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1561

Specification

KD-Validated Anti-KSR1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	Q8IVT5
Reactivity	**Rat, Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 102 kDa , observed , 120 kDa KDa**
Gene Name	**KSR1**
Aliases	**KSR1; Kinase Suppressor Of Ras 1; RSU2; KSR; Kinase Suppressor Of Ras; EC 2.7.11.1**
Immunogen	**A synthesized peptide derived from human KSR1**

KD-Validated Anti-KSR1 Rabbit Monoclonal Antibody - Additional Information

Gene ID **8844**

Other Names
Kinase suppressor of Ras 1, 2.7.11.1, KSR1, KSR

KD-Validated Anti-KSR1 Rabbit Monoclonal Antibody - 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

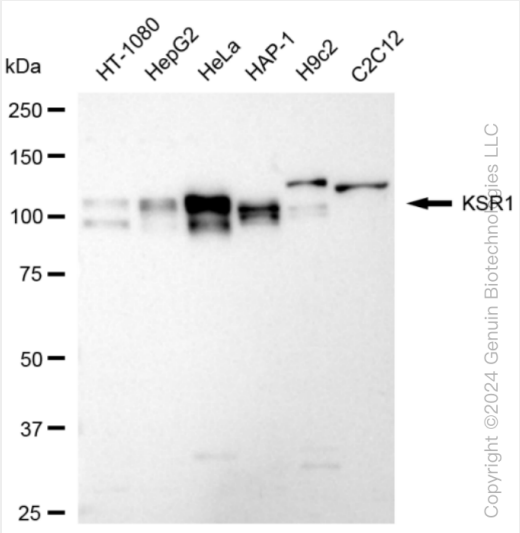
cells, where the phosphorylated form is bound to a 14-3-3 protein, sequestration in the cytoplasm occurs. Following growth factor treatment, the protein is free for membrane translocation, and it moves from the cytoplasm to the cell periphery.

KD-Validated Anti-KSR1 Rabbit Monoclonal Antibody - Protocols

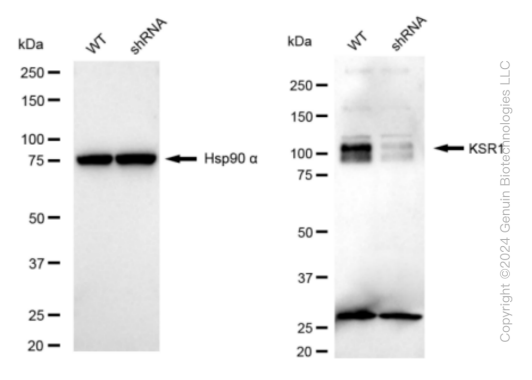
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-KSR1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-KSR1 antibody (Cat#AGI1561). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-KSR1 antibody (Cat#AGI1561, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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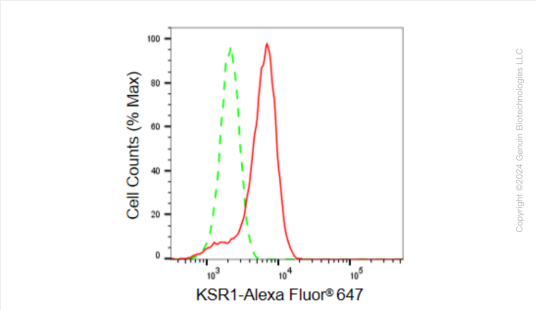
Western blotting analysis using anti-KSR1 antibody (Cat#AGI1561). KSR1 expression in wild type (WT) and KSR1 shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-KSR1 antibody (Cat#AGI1561, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of KSR1 expression in HeLa cells using KSR1 antibody(Cat#AGI1561, 1:2,000). Green, isotype control; red, KSR1.