

Datasheet for ABIN968599

## anti-KSR1 antibody (AA 90-203)



[Go to Product page](#)

1 Image

4 Publications

### Overview

Quantity:	50 µg
Target:	KSR1
Binding Specificity:	AA 90-203
Reactivity:	Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KSR1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

### Product Details

Immunogen:	Mouse KSR-1 aa. 90-203
Clone:	15-KSR
Isotype:	IgG1
Cross-Reactivity:	Rat (Rattus)
Characteristics:	<ol style="list-style-type: none"> <li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>2. Please refer to us for technical protocols.</li> <li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> <li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> </ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

## Product Details

chromatography.

## Target Details

Target:	KSR1
Alternative Name:	KSR-1 ( <a href="#">KSR1 Products</a> )
Background:	<p>Proteins of the Ras superfamily play critical roles in the control of normal and neoplastic proliferation. In mammalian cells there are four true Ras proteins (encoded by Ha-ras, N-ras, Ki-rasA, and Ki-rasB). These proteins relay signals from tyrosine kinases at the plasma membrane to the nucleus via a network of Ser/Thr kinases that includes the MAP kinase (Raf-MEK-ERK) pathway. Kinase suppressor of Ras (KSR-1) was discovered in a genetic screen to identify mutations that suppress constitutively active Ras mutants. KSR-1 contains five domains that are conserved areas (CA) in Drosophila, mouse, and human. CA1 is a unique domain, CA2 is a proline-rich domain, CA3 is a cysteine-rich domain, CA4 is a Ser/Thr rich region, and CA5 contains a C-terminal kinase domain similar to that of Raf. In COS7 cells, ceramide induces the autophosphorylation of KSR-1 and KSR-1-induced phosphorylation and activation of Raf. In addition, overexpression of KSR-1 in 293T cells leads to recruitment of MEK to a 700 kDa protein complex and translocates MEK from the soluble to the membrane-associated fraction. Thus, KSR-1 may have important kinase and scaffolding activities during Ras-related signaling. This antibody is routinely tested by western blot analysis.</p>
Molecular Weight:	115 kDa

## Application Details

Comment:	Related Products: <a href="#">ABIN967389</a>
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Handling

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

## Publications

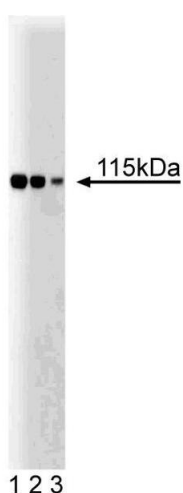
Product cited in: Stewart, Sundaram, Zhang, Lee, Han, Guan: "Kinase suppressor of Ras forms a multiprotein signaling complex and modulates MEK localization." in: **Molecular and cellular biology**, Vol. 19, Issue 8, pp. 5523-34, (1999) ([PubMed](#)).

Michaud, Therrien, Cacace, Edsall, Spiegel, Rubin, Morrison: "KSR stimulates Raf-1 activity in a kinase-independent manner." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 94, Issue 24, pp. 12792-6, (1998) ([PubMed](#)).

Zhang, Yao, Delikat, Bayoumy, Lin, Basu, McGinley, Chan-Hui, Lichenstein, Kolesnick: "Kinase suppressor of Ras is ceramide-activated protein kinase." in: **Cell**, Vol. 89, Issue 1, pp. 63-72, (1997) ([PubMed](#)).

Therrien, Chang, Solomon, Karim, Wassarman, Rubin: "KSR, a novel protein kinase required for RAS signal transduction." in: **Cell**, Vol. 83, Issue 6, pp. 879-88, (1996) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Western blot analysis of KSR-1 on a RSV-3T3 lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the anti- KSR-1 antibody.