

Ksr-2 (I-19): sc-50034

BACKGROUND

Kinase suppressor of Ras (KSR) and MAP kinase kinase kinase (MEKK3) are integral members of the MAP kinase pathway. Ksr is a conserved protein that positively regulates Ras signaling and may function as a scaffold for Raf, MEK and ERK. There are two types of Ksr proteins: Ksr-1 and Ksr-2. These two are individually necessary for a few specific Ras-dependent processes, but they are required together for most aspects of Ras-mediated signaling. Ksr-2 plays a key role in Ras-mediated signaling during germline meiotic progression and functions redundantly with Ksr-1 during the development of the excretory system pathway, hermaphrodite vulva and male spicules. Ksr-2 also functions as a negative regulator of the MEKK3-mediated activation of the MAP kinase pathways (specifically ERK and JNK) and of the NFκB pathways, and it simultaneously inhibits MEKK3-mediated IL-8 production.

CHROMOSOMAL LOCATION

Genetic locus: KSR2 (human) mapping to 12q24.22; Ksr2 (mouse) mapping to 5 F.

SOURCE

Ksr-2 (I-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Ksr-2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50034 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Ksr-2 (I-19) is recommended for detection of Ksr-2 isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Ksr-2 (I-19) is also recommended for detection of Ksr-2 isoforms 1 and 2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Ksr-2 siRNA (h): sc-60901, Ksr-2 siRNA (m): sc-60902, Ksr-2 shRNA Plasmid (h): sc-60901-SH, Ksr-2 shRNA Plasmid (m): sc-60902-SH, Ksr-2 shRNA (h) Lentiviral Particles: sc-60901-V and Ksr-2 shRNA (m) Lentiviral Particles: sc-60902-V.

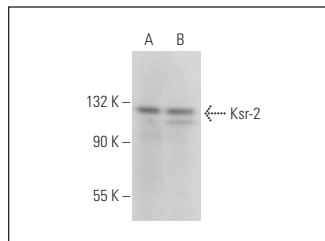
Molecular Weight of Ksr-2: 94 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201 or Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Ksr-2 (I-19): sc-50034. Western blot analysis of Ksr-2 expression in A-431 (A) and Jurkat (B) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
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Try **Ksr-2 (K75): sc-100421**, our highly recommended monoclonal alternative to Ksr-2 (I-19).