karyopherin 13 (V-20): sc-68097



The Power to Question

BACKGROUND

Belonging to the importin β family, karyopherin 13 (Kap13), also known as Importin-13 (IPO13) or Ran-binding protein 13, is a 963 amino acid protein that contains 20 HEAT repeats and one importin N-terminal domain. Localizing to the nucleus as well as the cytoplasm, karyopherin 13 is expressed in fetal brain, heart, intestine and kidney. Karyopherin 13 acts as a nuclear transport receptor, participating in nuclear protein import and nuclear localization signals (NLS) in cargo substrates, in a Ras-related nuclear protein-GTPase dependent system. Karyopherin 13 mediates the nuclear import and/or export of UBC9, the RBM8A/MAGOH complex, Pax-6, eIF1AY and Ran. The gene encoding karyopherin 13 maps to human chromosome 1p34.1 and mouse chromosome 4 D2.1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IPO13 (human) mapping to 1p34.1; Ipo13 (mouse) mapping to 4 D2.1.

SOURCE

karyopherin 13 (V-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of karyopherin 13 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-68097 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

karyopherin 13 (V-20) is recommended for detection of karyopherin 13 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

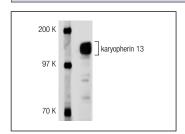
karyopherin 13 (V-20) is also recommended for detection of karyopherin 13 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for karyopherin 13 siRNA (h): sc-62521, karyopherin 13 siRNA (m): sc-62522, karyopherin 13 shRNA Plasmid (h): sc-62521-SH, karyopherin 13 shRNA Plasmid (m): sc-62522-SH, karyopherin 13 shRNA (h) Lentiviral Particles: sc-62521-V and karyopherin 13 shRNA (m) Lentiviral Particles: sc-62522-V.

Molecular Weight of karyopherin 13: 109 kDa.

Positive Controls: mouse brain extract: sc-2253, Jurkat whole cell lysate: sc-2204 or HeLa whole cell lysate: sc-2200.

DATA



karyopherin 13 (V-20): sc-68097. Western blot analysis of karyopherin 13 expression in mouse brain tissue extract

STORAGE

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

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 Satisfation Guaranteed Try **karyopherin 13 (D-3):** sc-271218 or **karyopherin 13 (B-8):** sc-271751, our highly recommended monoclonal alternatives to karyopherin 13 (V-20).

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