

Makorin-2 (FG-9): sc-101118

BACKGROUND

The Makorins are a family of putative ribonucleoproteins containing two to four C3H zinc fingers that may confer RNA-binding. In addition, they contain a C3HC4 RING zinc finger that allows them to function as E3 ubiquitin ligases. Makorin-2, also known as RNF62, HSPC070 or MKRN2, is a widely expressed, evolutionarily conserved protein with four C3H-type zinc fingers (three at the N-terminus and one at the C-terminus), one RING-type zinc finger and a cysteine and histidine motif similar to that found in Makorin-1. In *Xenopus*, Makorin-2 functions, via PI 3-kinase/Akt signaling, as a negative regulator of neurogenesis. In humans, Makorin-2 is overexpressed in various cancer cell lines, suggesting a possible role of Makorin-2 in tumor progression. In addition, Makorin-2 is co-expressed with Raf-1 in the same tissues and cell lines.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MKRN2 (human) mapping to 3p25.2; Mkrn2 (mouse) mapping to 6 E3.

SOURCE

Makorin-2 (FG-9) is a mouse monoclonal antibody raised against recombinant Makorin-2 of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Makorin-2 (FG-9) is recommended for detection of Makorin-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).

Suitable for use as control antibody for Makorin-2 siRNA (h): sc-62586, Makorin-2 siRNA (m): sc-62587, Makorin-2 shRNA Plasmid (h): sc-62586-SH, Makorin-2 shRNA Plasmid (m): sc-62587-SH, Makorin-2 shRNA (h) Lentiviral Particles: sc-62586-V and Makorin-2 shRNA (m) Lentiviral Particles: sc-62587-V.

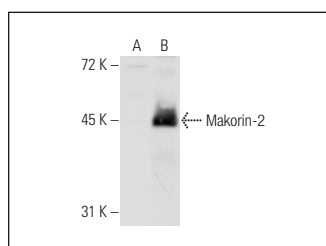
Molecular Weight of Makorin-2: 47 kDa.

Positive Controls: Makorin-2 (m): 293T Lysate: sc-121492 or HeLa nuclear extract: sc-2120.

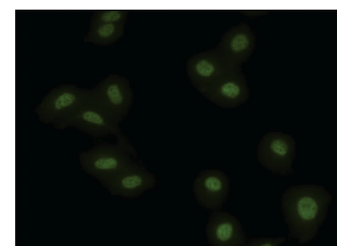
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Makorin-2 (FG-9): sc-101118. Western blot analysis of Makorin-2 expression in non-transfected: sc-117752 (A) and mouse Makorin-2 transfected: sc-121492 (B) 293T whole cell lysates.



Makorin-2 (FG-9): sc-101118. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nuclear localization.

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 for detailed protocols and support products.