

# Makorin-2 (H-65): sc-366032

## 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 (H-65) is a rabbit polyclonal antibody raised against amino acids 352-416 mapping at the C-terminus of Makorin-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.

## APPLICATIONS

Makorin-2 (H-65) 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).

Makorin-2 (H-65) is also recommended for detection of Makorin-2 in additional species, including equine, canine, bovine and porcine.

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.

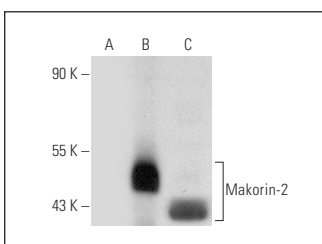
Molecular Weight of Makorin-2: 47 kDa.

Positive Controls: Makorin-2 (h): 293 Lysate: sc-112205 or NIH/3T3 whole cell lysate: sc-2210.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Makorin-2 (H-65): sc-366032. Western blot analysis of Makorin-2 expression in non-transfected 293: sc-110760 (A), human Makorin-2 transfected 293: sc-112205 (B) and NIH/3T3 (C) whole cell lysates.

## 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.