

# Makorin-2 (h): 293 Lysate: sc-112205

## 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.

## PRODUCT

Makorin-2 (h): 293 Lysate represents a lysate of human Makorin-2 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

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

## APPLICATIONS

Makorin-2 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive Makorin-2 antibodies. Recommended use: 10-20 µl per lane.

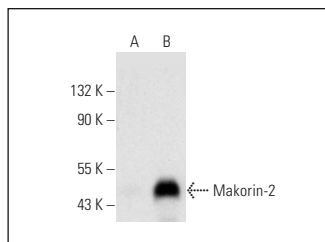
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Makorin-2 (C-5): sc-514185 is recommended as a positive control antibody for Western Blot analysis of enhanced human Makorin-2 expression in Makorin-2 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## 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.

## DATA



Makorin-2 (C-5): sc-514185. Western blot analysis of Makorin-2 expression in non-transfected: sc-110760 (A), human Makorin-2 transfected: sc-112205 (B) 293 whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.