

# Makorin-3 (A-20): sc-68206

## BACKGROUND

The Makorins are a family of proteins containing two to four C<sub>2</sub>H zinc fingers that may confer RNA-binding. In addition, they contain C<sub>3</sub>HC<sub>4</sub> RING zinc finger that allows them to function as E3 ubiquitin ligases. Makorin-3, also known as MKRN3, D15S9, RNF63, ZFP127 or ZNF127, is a 507 amino acid protein that is ubiquitously expressed and contains one RING-type zinc finger and 3 C<sub>2</sub>H<sub>1</sub>-type zinc finger through which it may convey E3 ubiquitin ligase activity. The gene encoding Makorin-3 maps to human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome. Angelman syndrome, Prader-Willi syndrome, Tay-Sachs disease and Marfan syndrome are all associated with defects in chromosome 15-localized genes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MKRN3 (human) mapping to 15q11.2.

## SOURCE

Makorin-3 (A-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Makorin-3 of human origin.

## 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.

## 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-68206 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-68206 X, 200 µg/0.1 ml.

## APPLICATIONS

Makorin-3 (A-20) is recommended for detection of Makorin-3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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-3 siRNA (h): sc-62588, Makorin-3 shRNA Plasmid (h): sc-62588-SH and Makorin-3 shRNA (h) Lentiviral Particles: sc-62588-V.

Makorin-3 (A-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of Makorin-3: 56 kDa.

Molecular Weight (observed) of Makorin-3: 72 kDa.

## 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) 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.

## PROTOCOLS

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