



Makorin-4 (N-12): sc-68213

BACKGROUND

The Makorins are a family of proteins containing two to four C_3H zinc fingers that may confer RNA-binding. In addition, they contain C_3HC_4 RING zinc finger that allows them to function as E3 ubiquitin ligases. Makorin-4, also known as MKRNP5 (Makorin RING finger protein pseudogene 5), RNF64 or ZNF127L1, is a 485 amino acid protein that contains one RING-type zinc finger and four C_3H_1 -type zinc fingers through which it may convey E3 ubiquitin ligase activity. The gene encoding Makorin-4 maps to human chromosome X, which contains nearly 153 million base pairs and houses over 1,000 genes. In conjunction with chromosome Y, chromosome X is responsible for sex determination, as an X and a Y chromosome lead to normal male development, while two copies of an X chromosome lead to normal female development. There are a number of conditions related to an abnormal number and combination of sex chromosomes, some of which include Turner's syndrome, color blindness, hemophilia and Duchenne muscular dystrophy.

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: MKRNP5 (human) mapping to Xp11.4.

SOURCE

Makorin-4 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Makorin-4 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.

Blocking peptide available for competition studies, sc-68213 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-68213 X, 200 µg/0.1 ml.

APPLICATIONS

Makorin-4 (N-12) is recommended for detection of Makorin-4 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).

Makorin-4 (N-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Makorin-4: 53 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.

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.