

# RNF38 (K-24): sc-102096

## BACKGROUND

The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in the ubiquitination pathway of protein degradation. RNF38 (RING finger protein 38) is a 515 amino acid protein that contains one RING-type zinc finger through which it may play a role in transcriptional regulation and protein degradation events. Defects in the gene encoding RNF38 are associated with a variety of disorders, including acromesomelic dysplasia (AMDM), arthrogryposis distal multiplex congenita type 1 (AMCD1) and autosomal recessive ataxic cerebral palsy (ACP), as well as various malignancies. Two isoforms of RNF38 are expressed due to alternative splicing events.

## REFERENCES

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5. Penengo, L., Mapelli, M., Murachelli, A.G., Confalonieri, S., Magri, L., Musacchio, A., Di Fiore, P.P., Polo, S. and Schneider, T.R. 2006. Crystal structure of the ubiquitin binding domains of Rabex-5 reveals two modes of interaction with ubiquitin. *Cell* 124: 1183-1195.

## CHROMOSOMAL LOCATION

Genetic locus: RNF38 (human) mapping to 9p13.2.

## SOURCE

RNF38 (K-24) is a purified rabbit polyclonal antibody raised against RNF38 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## 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.

## APPLICATIONS

RNF38 (K-24) is recommended for detection of RNF38 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for RNF38 siRNA (h): sc-92932, RNF38 shRNA Plasmid (h): sc-92932-SH and RNF38 shRNA (h) Lentiviral Particles: sc-92932-V.

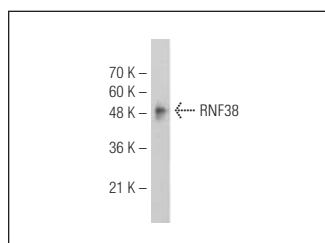
Molecular Weight of RNF38: 49 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## 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).

## DATA



RNF38 (K-24): sc-102096. Western blot analysis of RNF38 expression in Jurkat whole cell lysate.

## PROTOCOLS

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