RNF25 (C-12): sc-514944



The Power to Question

BACKGROUND

Ubiquitination is an important mechanism through which three classes of enzymes act in concert to target short-lived or abnormal proteins for destruction. The three classes of enzymes involved in ubiquitination are the ubiquitinactivating enzymes (E1s), the ubiquitin-conjugating enzymes (E2s) and the ubiquitin-protein ligases (E3s). RNF25 (RING finger protein 25), also known as A07, is a 459 amino acid protein that contains one RWD domain and one RING-type zinc finger. Via its RING-type zinc finger (a common domain that contains a conserved cysteine-rich region and is found in a number of viral and eukaryotic proteins), RNF25 is thought to exhibit E2-dependent E3 ubiquitin-protein ligase activity. Specifically, the RING finger of RNF25 interacts with an E2 ligase and, through this interaction, facilitates the ubiquitination of target proteins. RNF25 may also regulate the transcriptional activity of NF κ B p65, a protein that plays important roles in cell survival, inflammation response, host defense and proliferation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RNF25 (human) mapping to 2q35; Rnf25 (mouse) mapping to 1 C3.

SOURCE

RNF25 (C-12) is a mouse monoclonal antibody raised against amino acids 10-304 mapping within an internal region of RNF25 of human origin.

PRODUCT

Each vial contains 200 $\mu g \, lg G_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

RNF25 (C-12) is recommended for detection of RNF25 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Suitable for use as control antibody for RNF25 siRNA (h): sc-94291, RNF25 siRNA (m): sc-153044, RNF25 shRNA Plasmid (h): sc-94291-SH, RNF25 shRNA Plasmid (m): sc-153044-SH, RNF25 shRNA (h) Lentiviral Particles: sc-94291-V and RNF25 shRNA (m) Lentiviral Particles: sc-153044-V.

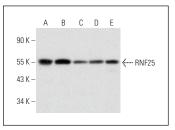
Molecular Weight of RNF25: 51 kDa.

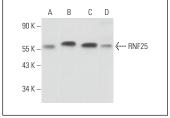
Positive Controls: HeLa whole cell lysate: sc-2200, HeLa nuclear extract: sc-2120 or Jurkat whole cell lysate: sc-2204.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-lgG κ BP-FITC: sc-516140 or m-lgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA





RNF25 (C-12): sc-514944. Western blot analysis of RNF25 expression in HeLa (A), U-251-MG (B), Hep G2 (C) and Jurkat (D) whole cell lysates and Hela puelos extract (E).

RNF25 (C-12): sc-514944. Western blot analysis of RNF25 expression in U-251-MG (**A**), HEK293 (**B**) and F9 (**C**) whole cell lysates and rat testis tissue extract (**D**).

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.