

RNF126 (C-1): sc-376005

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 protein-protein interactions and protein-DNA interactions. RNF126 (RING finger protein 126) contains one RING-type zinc finger domain and is known to interact with TRAF6 (a ubiquitin ligase) and BAT3 (an apoptotic regulator). RNF126 shares 46% overall amino acid identity with ZNF364 (an E3 ligase that is closely linked to human breast cancer) and 75% amino acid identity within the RING domain. This suggests that RNF126 may have a similar function to that of ZNF364. Due to alternative splicing events, two isoforms exist for RNF126.

CHROMOSOMAL LOCATION

Genetic locus: RNF126 (human) mapping to 19p13.3.

SOURCE

RNF126 (C-1) is a mouse monoclonal antibody raised against amino acids 41-146 mapping within an internal region of RNF126 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-376005 X, 200 µg/0.1 ml.

RNF126 (C-1) is available conjugated to agarose (sc-376005 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376005 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376005 PE), fluorescein (sc-376005 FITC), Alexa Fluor® 488 (sc-376005 AF488), Alexa Fluor® 546 (sc-376005 AF546), Alexa Fluor® 594 (sc-376005 AF594) or Alexa Fluor® 647 (sc-376005 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376005 AF680) or Alexa Fluor® 790 (sc-376005 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

APPLICATIONS

RNF126 (C-1) is recommended for detection of RNF126 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 RNF126 siRNA (h): sc-97281, RNF126 shRNA Plasmid (h): sc-97281-SH and RNF126 shRNA (h) Lentiviral Particles: sc-97281-V.

RNF126 (C-1) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

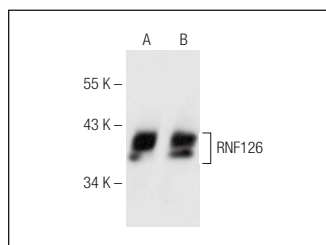
Molecular Weight of RNF126: 36 kDa.

Positive Controls: Ramos cell lysate: sc-2216, Jurkat whole cell lysate: sc-2204 or CCRF-CEM cell lysate: sc-2225.

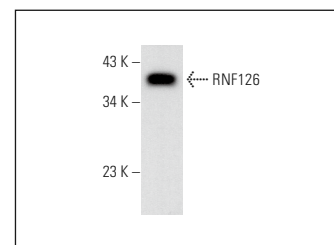
RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ 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



RNF126 (C-1): sc-376005. Western blot analysis of RNF126 expression in Jurkat (A) and CCRF-CEM (B) whole cell lysates.



RNF126 (C-1): sc-376005. Western blot analysis of RNF126 expression in Ramos whole cell lysate.

SELECT PRODUCT CITATIONS

- Wang, Y., et al. 2016. RNF126 promotes homologous recombination via regulation of E2F1-mediated BRCA1 expression. *Oncogene* 35: 1363-1372.
- Migita, K., et al. 2020. RNF126 as a marker of prognosis and proliferation of gastric cancer. *Anticancer Res.* 40: 1367-1374.
- Xu, H., et al. 2021. E3 ubiquitin ligase RNF126 affects bladder cancer progression through regulation of PTEN stability. *Cell Death Dis.* 12: 239.
- Pan, Y., et al. 2022. RING finger protein 126 promotes breast cancer metastasis and serves as a potential target to improve the therapeutic sensitivity of ATR inhibitors. *Breast Cancer Res.* 24: 92.

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.

PROTOCOLS

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