

Datasheet for 600-101-292**RING1B Antibody****Overview**

Description:	Anti-RING1B (GOAT) Antibody - 600-101-292
Item No.:	600-101-292
Size:	100 µg
Applications:	ELISA, IF, Multiplex, WB
Reactivity:	Human, Mouse, Chinese Hamster
Host Species:	Goat

Product Details

Background:	RING1B (also known as BAP1 and RNF2) is one of the PcG proteins. The polycomb group (PcG) of proteins form the multiprotein complexes that are important for the transcription repression of various genes involved in development and cell proliferation. It has been shown to interact with, and suppress the activity of, transcription factor CP2 (TFCP2/CP2). Studies of the mouse counterpart suggested the involvement of this gene in the specification of anterior-posterior axis, as well as in cell proliferation in early development. This protein was also found to interact with huntingtin interacting protein 2 (HIP2), a ubiquitin-conjugating enzyme that possesses ubiquitin ligase activity. Anti-RINGB1 Antibody is useful for researchers interested in epigenetics, ubiquitin, and transcription factor research.
Synonyms:	goat anti-RING1B Antibody, RING finger protein BAP1 antibody, DING antibody, RING finger protein 1B, E3 ubiquitin protein ligase RING 2 antibody, Huntingtin interacting protein 2 interacting protein 3 antibody, Anti-RNF2 antibody, HIP2-interacting protein 3, Protein DinG
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RNF2
Reactivity:	Human, Mouse, Chinese Hamster
Immunogen Type:	Conjugated Peptide

Immunogen:	RING1B Antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 180-205 of human RING1B protein.
Purity/Specificity:	Affinity purified Anti-RING1B antibody is directed against human RING1B protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, chimpanzee, orangutan, mouse, rat, dog, bovine, frog and chicken based on 100% homology for the immunogen sequence. Expect cross reactivity with RING1B from zebrafish, as only a single amino acid residue changes within the immunogen sequence (92% positive by BLAST). Cross reactivity with RING1B homologues from other sources has not been determined.
Relevant Links:	• NCBI - 6005747 • UniProtKB - Q99496 • GeneID - 6045

Application Details

Tested Applications:	ELISA, IF, Multiplex, WB
Application Note:	Anti-RING1B purified antibody has been tested for use in ELISA, immunofluorescence, and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 38 kDa in size corresponding to RING1B by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:25,000
IF:	1:300
WB:	1:500 - 1:2,000

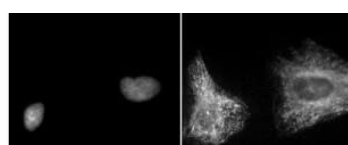
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

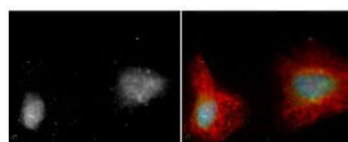
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



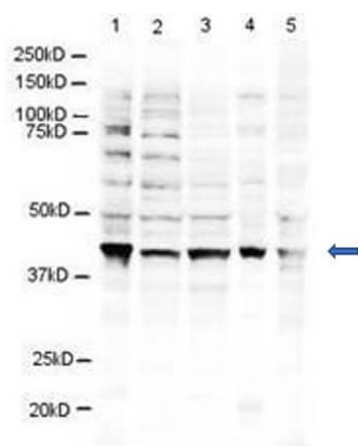
DAPI
Nuclear staining

Tubulin antibody
staining (cytoplasm)



Rnf2 antibody

Merged picture
(DAPI: blue;
Tubulin: red
Rnf2: green)



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Goat anti-RING1B antibody. Tissue: human HeLa cells. Fixation: methanol and blocked with 0.2% fish scale gelatin for 1 hour at 25°C. Antigen retrieval: not required. Primary antibody: RING1B antibody at 1:300 for 20 minutes at 25°C. Secondary antibody: Alexa Fluor®488-conjugated Donkey anti-goat IgG secondary antibody at 1:500 for 45 min at RT. Localization: RING1B is nuclear and occasionally cytoplasmic. Staining: RING1B (RNF2) as green signal, Tubulin cytoplasm staining red, and DAPI (blue) nuclear counterstain.

Western Blot

Western blot using Rockland's Affinity Purified anti-RING1B antibody shows detection of a 38 kDa band corresponding to human RING1B. Lane 1: 3T3 whole cell lysates (p/n W10-000-358). Lane 2: U937 (p/n W09-001-GL1). Lane 3: Jurkat (p/n W09-001-370). Lane 4: mouse brain (p/n W10-000-T004). Lane 5: CHO-K1. Approximately 20 µg of lysate was run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of anti-RING1B antibody incubated at room temperature. Signal was detected using standard techniques.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.