

Anti-RING1B (GOAT) Antibody - 600-101-292

Code: 600-101-292

Size: 100 µg

Product Description: Anti-RING1B (GOAT) Antibody - 600-101-292

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Goat
Gene Name	RNF2
Species Reactivity	human, chimpanzee, orangutan, mouse, rat, dog, bovine, frog, chicken
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
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.
Synonyms	BAP1 antibody, DING antibody, DinG protein antibody, RING finger protein BAP1 antibody, E3 ubiquitin protein ligase RING 2 antibody, Huntingtin interacting protein 2 interacting protein 3 antibody, RNF 2 antibody
Application Note	Anti-RING1B purified antibody has been tested for use in ELISA 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.
Background	RING1B (also known as BAP1, DING, Polycomb-M33 interacting protein Ring1B, Ring finger protein 1b, Ring finger protein 2 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.
Purity And 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.
Assay Dilutions	User Optimized
ELISA	1:5,000 - 1:25,000
WESTERN BLOT	1:500 - 1:2,000
IFMICROSCOPY	1:300
OTHER ASSAYS	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	RING1B Antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding aa 189-201 of human RING1B protein.
General Reference	<p>Voncken,J.W., Roelen,B.A., Roefs,M., de Vries,S., Verhoeven,E., Marino,S., Deschamps,J. and van Lohuizen,M. (2003) Rnf2 (Ring1b) deficiency causes gastrulation arrest and cell cycle inhibition. Proc. Natl. Acad. Sci. U.S.A. 100 (5), 2468-2473.</p> <p>Suzuki,M., et al. (2002) Involvement of the Polycomb-group gene Ring1B in the specification of the anterior-posterior axis in mice. Development 129 (18), 4171-4183.</p> <p>Tuckfield,A., Clouston,D.R., Wilanowski,T.M., Zhao,L.L., Cunningham,J.M. and Jane,S.M. (2002) Binding of the RING polycomb proteins to specific target genes in complex with the grainyhead-like family of developmental transcription factors. Mol. Cell. Biol. 22 (6), 1936-1946.</p>

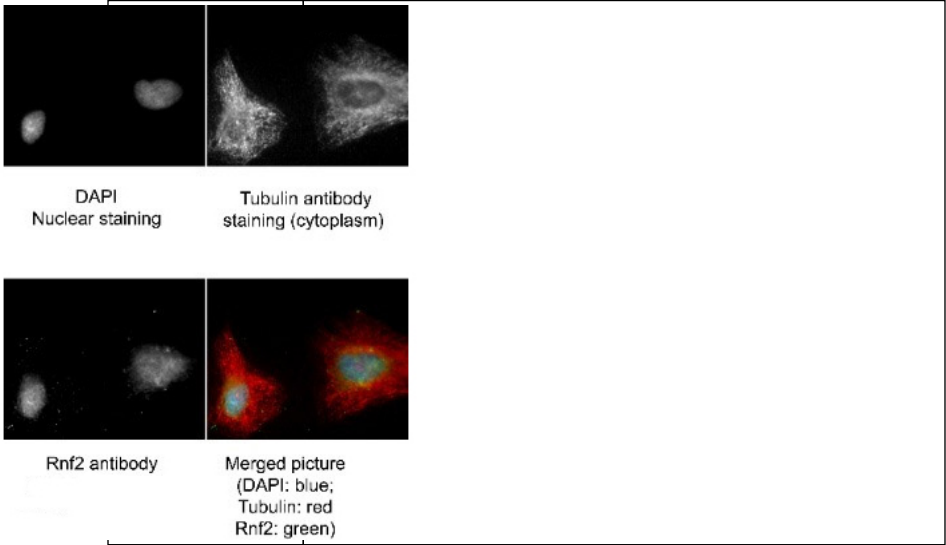
Related Products

100-401-A08	Anti-SKP1 (C-terminal specific) [RABBIT] Antibody - 100-401-A08
200-301-880	Anti-alpha-Tubulin (MOUSE) Monoclonal Antibody - 200-301-880
600-401-690	Anti-E2F-1 pS364 (RABBIT) Antibody - 600-401-690
600-401-880	Anti-alpha-Tubulin (RABBIT) Antibody - 600-401-880

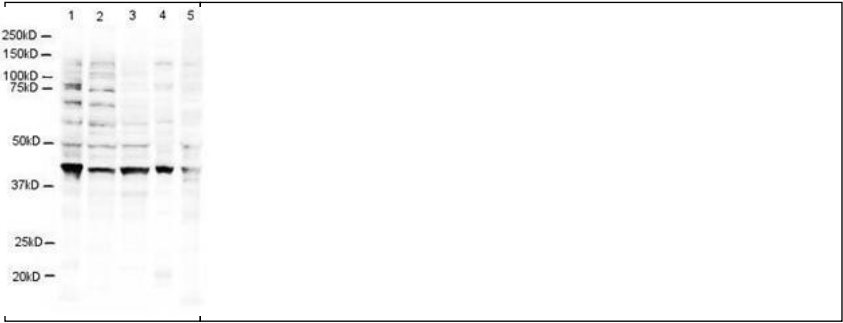
Related Links

Images

1 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.



2 Western blot using Rockland's Affinity Purified anti-RING1B antibody shows detection of a 38 kDa band corresponding to human RING1B in 3T3 (lane 1), U937 (lane 2), Jurkat (lane 3), mouse brain (lane 4) and CHO-K1 (lane 5) cell lysates. 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.



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