



Rabbit Anti-RING2 antibody

SL9168R

Product Name:	RING2
Chinese Name:	Ring finger protein2抗体
Alias:	BAP 1; BAP1; DING; DinG protein; E3 ubiquitin protein ligase RING 2; E3 ubiquitin protein ligase RING2; E3 ubiquitin-protein ligase RING2; HIP2 interacting protein 3; HIP2-interacting protein 3; HIPI 3; HIPI3; Huntingtin interacting protein 2 interacting protein 3; Huntingtin-interacting protein 2-interacting protein 3; Polycomb M33 interacting protein Ring 1B; Polycomb M33 interacting protein Ring1B; Protein DinG; RING 1B; RING 2; Ring finger protein 1b; Ring finger protein 2; RING finger protein BAP 1; RING finger protein BAP-1; RING finger protein BAP1; RING1b; RING2_HUMAN; RNF 2; RNF2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	37kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human RING2:51-160/336
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

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. The protein encoded by this gene is one of the PcG proteins. 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), an ubiquitin-conjugating enzyme, and possess ubiquitin ligase activity. [provided by RefSeq, Jul 2008].

Function:

E3 ubiquitin-protein ligase that mediates monoubiquitination of 'Lys-119' of histone H2A, thereby playing a central role in histone code and gene regulation. H2A 'Lys-119' ubiquitination gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. May be involved in the initiation of both imprinted and random X inactivation. Essential component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones, rendering chromatin heritably changed in its expressibility. E3 ubiquitin-protein ligase activity is enhanced by BMI1/PCGF4. Acts as the main E3 ubiquitin ligase on histone H2A of the PRC1 complex, while RING1 may rather act as a modulator of RNF2/RING2 activity.

Product Detail:

Subunit:

Component of chromatin-associated Polycomb (PcG) complexes. Part of the E2F6.com-1 complex in G0 phase composed of E2F6, MGA, MAX, TFDP1, CBX3, BAT8, EUHMTASE1, RING1, RNF2/RING2, MBLR, L3MBTL2 and YAF2. Component of a PRC1-like complex. Component of some MLL1/MLL complex, at least composed of the core components MLL, ASH2L, HCFC1/HCF1, WDR5 and RBBP5, as well as the facultative components C17orf49, CHD8, E2F6, HSP70, INO80C, KANSL1, LAS1L, MAX, MCERS1, MGA, MYST1/MOF, PELP1, PHF20, PRP31, RING2, RUVB1/TIP49A, RUVB2/TIP49B, SENP3, TAF1, TAF4, TAF6, TAF7, TAF9 and TEX10. Interacts with RYBP, HIP2 and TFCP2. Association to the chromosomal DNA is cell-cycle dependent. Component of repressive BCOR complex containing Polycomb group subcomplex at least composed of RYBP, PCGF1, BCOR and RING1. Interacts with PCGF2, CBX4, CBX6, CBX7 and CBX8. Interacts with CBX2, BMI and PHC2. Interacts with RYBP, HIP2 and TFCP2.

Subcellular Location:

Nucleus. Chromosome. Note=Enriched on inactive X chromosome (Xi) in female trophoblast stem (TS) cells as well as differentiating embryonic stem (ES) cells. The enrichment on Xi is transient during TS and ES cell differentiation. The association with Xi is mitotically stable in non-differentiated TS cells.

Post-translational modifications:

Polyubiquitinated in the presence of UBE2D3 (in vitro).
Monoubiquitinated, by auto-ubiquitination.

Similarity:

Contains 1 RING-type zinc finger.

SWISS:

Q99496

Gene ID:

6045

Database links:

[Entrez Gene: 6045](#)Human

[Entrez Gene: 19821](#)Mouse

[Entrez Gene: 304850](#)Rat

[Omim: 608985](#)Human

[SwissProt: Q99496](#)Human

[SwissProt: Q9CQJ4](#)Mouse

[SwissProt: Q4KLY4](#)Rat

[Unigene: 102990](#)Cow

[Unigene: 11019](#)Dog

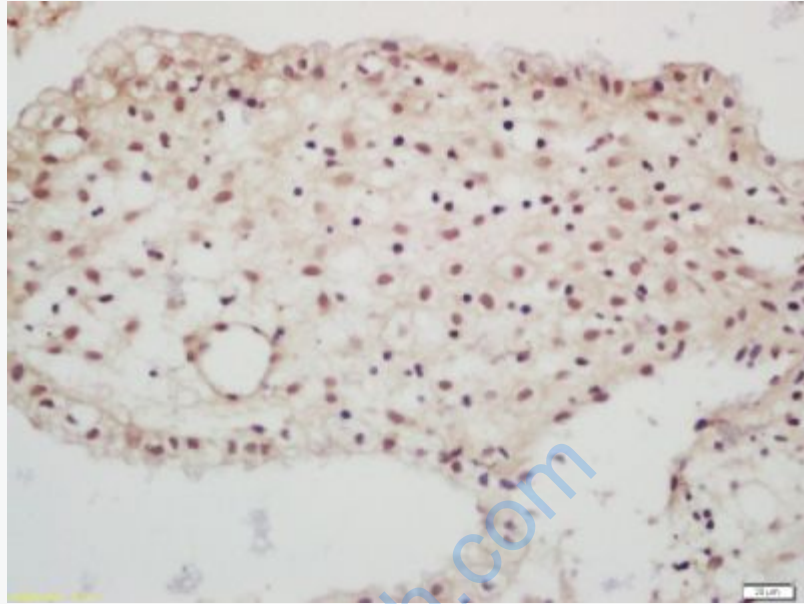
[Unigene: 591490](#)Human

[Unigene: 482250](#)Mouse

[Unigene: 19719](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

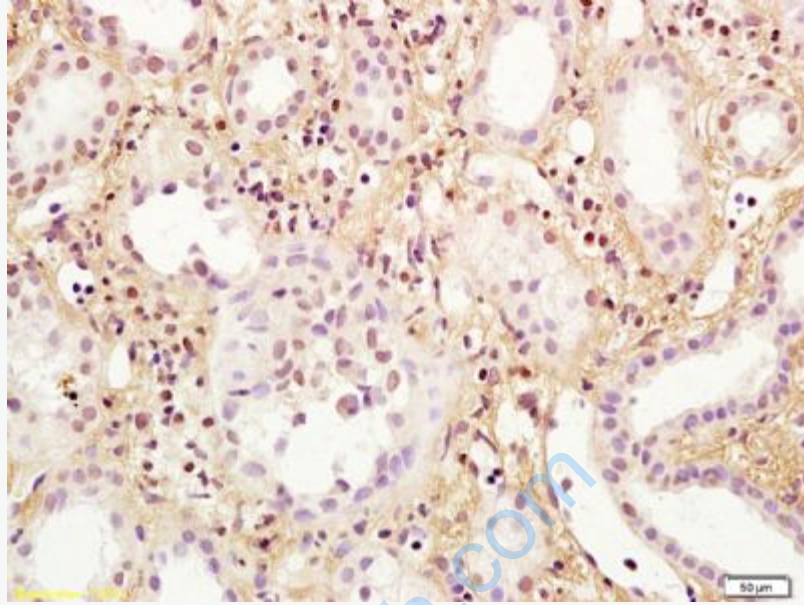


Picture:

Tissue/cell: human placenta tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-RING2 Polyclonal Antibody, Unconjugated(SL9168R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-DRIP1/C14orf28 Polyclonal Antibody, Unconjugated(SL9168R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining