

RNF2 / RING2 / RING1B Antibody (aa189-201)
Goat Polyclonal Antibody
Catalog # ALS11354**Specification**

RNF2 / RING2 / RING1B Antibody (aa189-201) - Product Information

Application	IHC
Primary Accession	Q99496
Reactivity	Human, Mouse, Rat, Chicken, Bovine, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	38kDa KDa

RNF2 / RING2 / RING1B Antibody (aa189-201) - Additional Information**Gene ID** 6045**Other Names**

E3 ubiquitin-protein ligase RING2, 6.3.2.-, Huntingtin-interacting protein 2-interacting protein 3, HIP2-interacting protein 3, Protein DinG, RING finger protein 1B, RING1b, RING finger protein 2, RING finger protein BAP-1, RNF2, BAP1, DING, HIP13, RING1B

Target/Specificity

aa 189-201 of human RING1B protein.

Reconstitution & Storage

+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions

RNF2 / RING2 / RING1B Antibody (aa189-201) is for research use only and not for use in diagnostic or therapeutic procedures.

RNF2 / RING2 / RING1B Antibody (aa189-201) - Protein Information**Name** RNF2**Synonyms** BAP1, DING, HIP13, RING1B**Function**

E3 ubiquitin-protein ligase that mediates monoubiquitination of 'Lys-119' of histone H2A (H2AK119Ub), thereby playing a central role in histone code and gene regulation (PubMed:15386022, PubMed:16359901, PubMed:25519132, PubMed:33864376, PubMed:21772249, PubMed:25355358, PubMed:26151332). H2AK119Ub

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 (By similarity). 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 (PubMed:16359901, PubMed:26151332). PcG PRC1 complex acts via chromatin remodeling and modification of histones, rendering chromatin heritably changed in its expressibility (PubMed:26151332). E3 ubiquitin-protein ligase activity is enhanced by BMI1/PCGF4 (PubMed:21772249). 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 (Probable). Association with the chromosomal DNA is cell-cycle dependent. In resting B- and T-lymphocytes, interaction with AURKB leads to block its activity, thereby maintaining transcription in resting lymphocytes (By similarity). Also acts as a negative regulator of autophagy by mediating ubiquitination of AMBRA1, leading to its subsequent degradation (By similarity).

Cellular Location

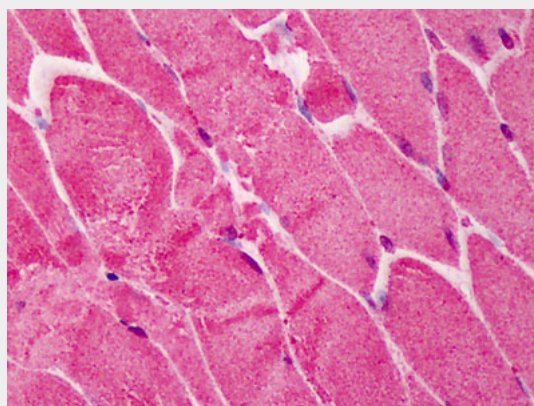
Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q9CQJ4}. Chromosome {ECO:0000250|UniProtKB:Q9CQJ4}. Note=Enriched on inactive X chromosome (Xi) in female trophoblast stem (TS) cells as well as differentiating embryonic stem (ES) cells. The enrichment on Xi is transient during TS and ES cell differentiation. The association with Xi is mitotically stable in non-differentiated TS cells. {ECO:0000250|UniProtKB:Q9CQJ4}

RNF2 / RING2 / RING1B Antibody (aa189-201) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

RNF2 / RING2 / RING1B Antibody (aa189-201) - Images



Anti-RNF2 antibody IHC of human skeletal muscle.

RNF2 / RING2 / RING1B Antibody (aa189-201) - Background

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RNF2 / RING2 / RING1B Antibody (aa189-201) - References

Dyer M.J.S.,et al.Submitted (JAN-1997) to the EMBL/GenBank/DDBJ databases.
Li S.-F.,et al.Submitted (APR-1999) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.