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RING1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14560A

Specification

RING1 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q06587
Other Accession	Q6MGB6, O35730, NP_002922.2
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**95-123**

RING1 Antibody (N-term) - Additional Information

Gene ID 6015

Other Names
E3 ubiquitin-protein ligase RING1, 632-, Polycomb complex protein RING1, RING finger protein 1, Really interesting new gene 1 protein, RING1, RNF1

Target/Specificity
This RING1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 95-123 amino acids from the N-terminal region of human RING1.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
RING1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

RING1 Antibody (N-term) - Protein Information

Name RING1 (HGNC:10018)

Function Constitutes one of the E3 ubiquitin-protein ligases that mediate 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. 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. Compared to RNF2/RING2, it does not have the main E3 ubiquitin ligase activity on histone H2A, and it may rather act as a modulator of RNF2/RING2 activity.

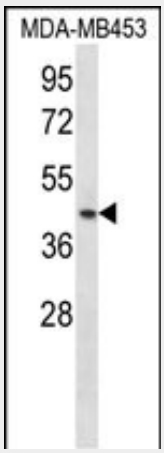
Cellular Location
Nucleus. Nucleus speckle

RING1 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RING1 Antibody (N-term) - Images



RING1 Antibody (N-term) (Cat. #AP14560a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the RING1 antibody detected the RING1 protein (arrow).

RING1 Antibody (N-term) - Background

This gene belongs to the RING finger family, members of which encode proteins characterized by a RING domain, a zinc-binding motif related to the zinc finger domain. The gene product can bind DNA and can act as a transcriptional repressor. It is associated with the multimeric polycomb group protein complex. The gene product interacts with the polycomb group proteins BMI1, EDR1, and CBX4, and colocalizes with these proteins in large

nuclear domains. It interacts with the CBX4 protein via its glycine-rich C-terminal domain. The gene maps to the HLA class II region, where it is contiguous with the RING finger genes FABGL and HKE4.

RING1 Antibody (N-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
de Bie, P., et al. Biochem. Biophys. Res. Commun. 400(3):389-395(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009) :
Vidal, M. Int. J. Dev. Biol. 53 (2-3), 355-370 (2009) :

RING1 Antibody (N-term) - Citations

- HSCARG, a novel regulator of H2A ubiquitination by downregulating PRC1 ubiquitin E3 ligase activity, is essential for cell proliferation.