10320 Camino Santa Fe, Suite G
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KD-Validated Anti-RING1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2358

Specification

KD-Validated Anti-RING1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q06587
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 42 kDa ; Observed, 50 kDa KDa**
Gene Name	**RING1**
Aliases	**Ring Finger Protein 1; RNF1; RING-Type E3 Ubiquitin Transferase RING1; Really Interesting New Gene 1 Protein; E3 Ubiquitin-Protein Ligase RING1; Polycomb Complex Protein RING1; RING Finger Protein 1; EC 2.3.2.27; EC 6.3.2; RING1A**
Immunogen	**A synthesized peptide derived from human RING1**

KD-Validated Anti-RING1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**6015**

Other Names
E3 ubiquitin-protein ligase RING1, 2.3.2.27, Polycomb complex protein RING1, RING finger protein 1, RING-type E3 ubiquitin transferase RING1, Really interesting new gene 1 protein, RING1 (HGNC:10018)

KD-Validated Anti-RING1 Rabbit Monoclonal Antibody - 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

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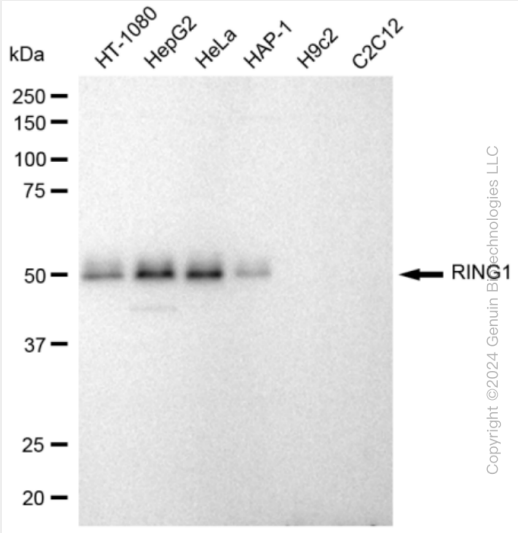
KD-Validated Anti-RING1 Rabbit Monoclonal Antibody - Protocols

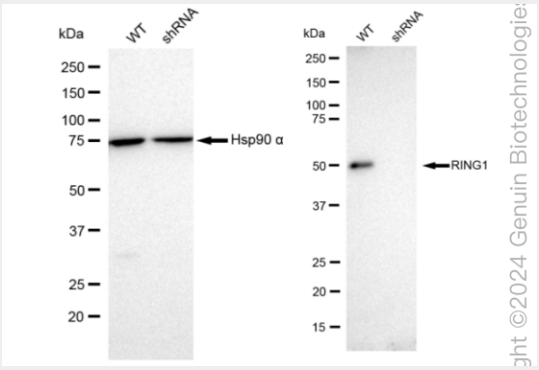
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-RING1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-RING1 antibody (Cat#AGI2358). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-RING1 antibody (Cat#AGI2358, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-RING1 antibody (Cat#AGI2358). RING1 expression in wild type (WT) and RING1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-RING1 antibody (Cat#AGI2358, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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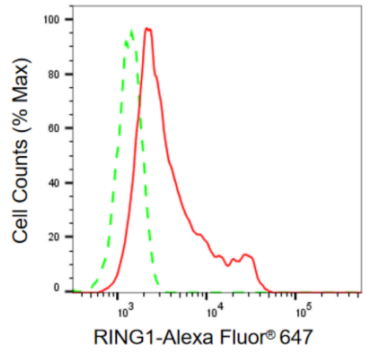
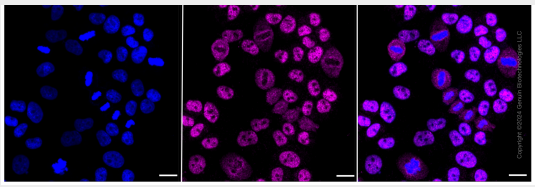


Flow cytometric analysis of RING1 expression in HepG2 cells using RING1 antibody (Cat#AGI2358, 1:2,000). Green, isotype control; red, RING1.



Immunocytochemical staining of HepG2 cells with RING1 antibody (Cat#AGI2358, 1:1,000). Nuclei were stained blue with DAPI; RING1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.