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Anti-RING1 Antibody

Catalog # AP96038

Product Information

Application	WB, IHC, FC
Primary Accession	Q06587
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	42429

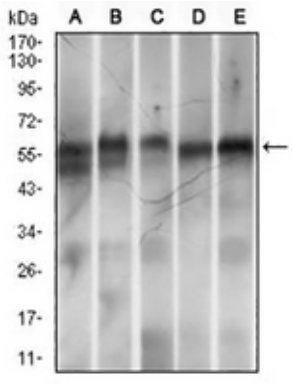
Additional Information

Gene ID	6015
Other Names	RNF1; E3 ubiquitin-protein ligase RING1; Polycomb complex protein RING1; RING finger protein 1; Really interesting new gene 1 protein
Target/Specificity	Recombinant fusion protein of human RING1 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

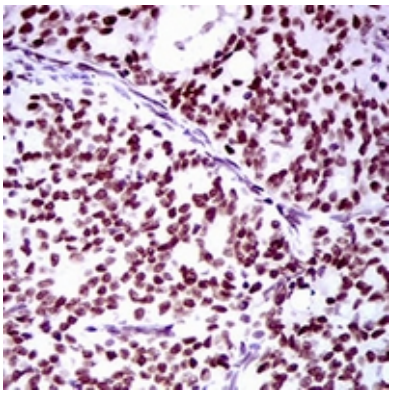
Protein Information

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

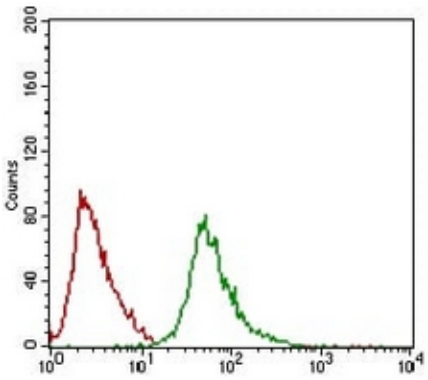
Images



Western blot analysis of RING1 expression in MOLT4 (A), LNCaP (B), Hela (C), HEK293 (D), Jurkat (E) whole cell lysates. (Predicted band size: 42 kD; Observed band size: 58 kD)



Immunohistochemical analysis of RING1 staining in human cervical cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HeLa cells using Anti-RING1 Antibody (green) and negative control (red).