RING1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	RING1, Monoclonal Antibody
Full Product Name	RING1 (RING Finger Protein 1, Ring1A, RNF1) (MaxLight 750)
Product Gene Name	anti-RING1 antibody
Product Synonym Names	Ring Finger Protein 1; Ring1A; RNF1
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2D5
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified
Specificity	Recognizes RING1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	39,146 Da
OMIM	602045
3D Structure	ModBase 3D Structure for Q06587
Immunogen	RING1 (NP_002922, 81aa-170aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	NKECPTCRKKLVSKRSLRPDPNFDALISKIYPSREEYEAHQDRVLIRLSRLHNQQALSSSIEEGLRMQAMHRAQRVRRPIPGSDQTTTMS
Conjugate	MaxLight750
Product Categories/Family for anti-RING1 antibody	Antibodies; Transcription Factors; Zinc (Ring) Finger
Applications Tested/Suitable for anti-RING1 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-RING1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-RING1 antibody	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. [provided by RefSeq]
Other Notes	Small volumes of anti-RING1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for RING1 purchase	MBS6240341 is an antibody targeting RING1. Also known as RING1 (RING Finger Protein 1, Ring1A, RNF1) (MaxLight 750). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RING1. It may not necessarily be applicable to this product.

NCBI GI #	51479192
NCBI GeneID	6015
NCBI Accession #	NP_002922
UniProt Primary Accession #	Q06587
UniProt Secondary Accession #	Q5JP96; Q5SQW2; Q86V19; A8JZZ0
UniProt Related Accession #	Q06587
GenBank Nucleotide #	NM_002931
NCBI Official Full Name	E3 ubiquitin-protein ligase RING1
NCBI Official Synonym Full Names	ring finger protein 1
NCBI Official Symbol	RING1
NCBI Official Synonym Symbols	RNF1; RING1A
UniProt Protein Name	E3 ubiquitin-protein ligase RING1
UniProt Synonym Protein Names	Polycomb complex protein RING1; RING finger protein 1; Really interesting new gene 1 protein
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	RING1
UniProt Synonym Gene Names	RNF1
UniProt Entry Name	RING1_HUMAN
NCBI Protein Information	E3 ubiquitin-protein ligase RING1; polycomb complex protein RING1; really interesting new gene 1 protein

UniProt Comments for RING1	RING1: 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. Component of chromatin-associated Polycomb (PcG) complexes. Interacts with BMI1. 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. Interacts with CBX2 and PCGF6. Component of a PRC1-like complex. Component of repressive BCOR complex containing Polycomb group subcomplex at least composed of RYBP, PCGF1, BCOR and RNF2/RING2. Interacts with PCGF2, RNF2; CBX6, CBX7 and CBX8. Interacts with PHC2. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ligase; Transcription factor; EC 6.3.2.-; EC 6.3.2.19; Ubiquitin conjugating system; Ubiquitin ligase Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: nucleoplasm; sex chromatin; cytoplasm; nuclear speck; PcG protein complex; nucleus Molecular Function: protein binding; zinc ion binding; ubiquitin-protein ligase activity; chromatin binding; ligase activity Biological Process: anterior/posterior pattern formation; camera-type eye morphogenesis; transcription, DNA-dependent; negative regulation of transcription, DNA-dependent
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