

Anti-RING3 Antibody

Catalog # AP95705

Product Information

Application	WB, FC
Primary Accession	P25440
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	88061

Additional Information

Gene ID	6046
Other Names	KIAA9001; RING3; Bromodomain-containing protein 2; O27.1.1; Really interesting new gene 3 protein
Target/Specificity	Recombinant fusion protein of human RING3 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200)
Format	Mouse IgG2b. 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

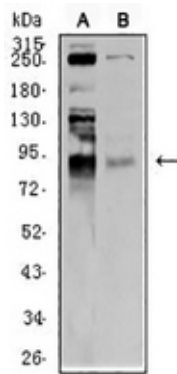
Name	BRD2 {ECO:0000303 PubMed:16227282, ECO:0000312 HGNC:HGNC:1103}
Function	Chromatin reader protein that specifically recognizes and binds histone H4 acetylated at 'Lys-5' and 'Lys-12' (H4K5ac and H4K12ac, respectively), thereby controlling gene expression and remodeling chromatin structures (PubMed:17148447, PubMed:17848202, PubMed:18406326, PubMed:20048151, PubMed:20709061, PubMed:20871596). Recruits transcription factors and coactivators to target gene sites, and activates RNA polymerase II machinery for transcriptional elongation (PubMed:28262505). Plays a key role in genome compartmentalization via its association with CTCF and cohesin: recruited to chromatin by CTCF and promotes formation of topologically associating domains (TADs) via its ability to bind acetylated histones, contributing to CTCF boundary formation and enhancer insulation (PubMed:35410381). Also recognizes and binds acetylated non-histone proteins, such as STAT3 (PubMed:28262505). Involved in inflammatory response by regulating differentiation of naive CD4(+) T-cells into T- helper Th17: recognizes and binds STAT3 acetylated at 'Lys-87', promoting STAT3 recruitment to chromatin (PubMed:28262505). In addition to acetylated lysines, also recognizes and binds lysine residues on histones that are both

methyated and acetylated on the same side chain to form N6-acetyl-N6-methyllysine (Kacme), an epigenetic mark of active chromatin associated with increased transcriptional initiation (PubMed:[37731000](#)). Specifically binds histone H4 acetyl-methylated at 'Lys-5' and 'Lys-12' (H4K5acme and H4K12acme, respectively) (PubMed:[37731000](#)).

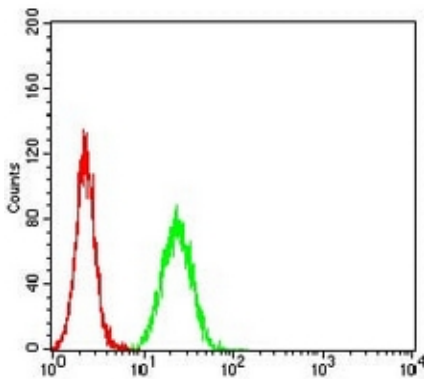
Cellular Location

Nucleus. Chromosome Note=Detected on chromatin and nucleosomes

Images



Western blot analysis of RING3 expression in C6 (A), HeLa (B) whole cell lysates. (Predicted band size: 88 kD; Observed band size: 88 kD)



Flow cytometric analysis of HeLa cells using Anti-RING3 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.