10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-RING3 Antibody

Catalog # AP95705

## Product Information

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

## Additional Information

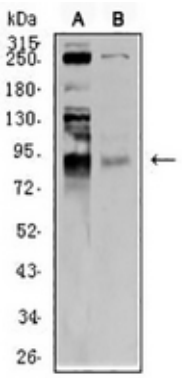
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|---|---|
| **Gene ID** | 6046 |
| **Other Names** | KIAA9001; RING3; Bromodomain-containing protein 2; O27.1.1; Really interesting new gene 3 protein |
| **Target/Specificity** | Recombinant fusion protein of human RING3 expressed in E. Coli |
| **Dilution** | 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

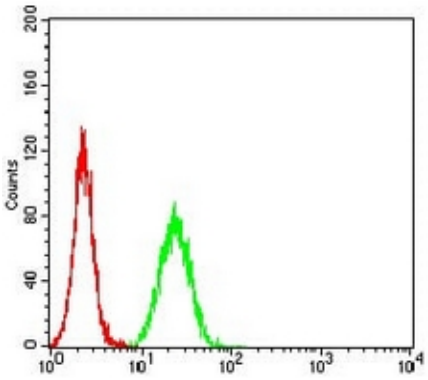
| | |
|---|---|
| **Name** | BRD2 {ECO:0000303\|PubMed:16227282, ECO:0000312\|HGNC:HGNC:1103} |
| **Function** | Chromatin reader protein that specifically recognizes and binds histone H4 acetylated at 'Lys-5' and 'Lys-12' (H4K5ac and H4K12ac, respectively), thereby controlling gene expression and remodeling 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 |

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| | methylated 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'.