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KD-Validated Anti-RBBP4 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1664

Specification

KD-Validated Anti-RBBP4 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q09028
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 48 kDa , observed , 52 kDa KDa**
Gene Name	**RBBP4**
Aliases	**RB Binding Protein 4, Chromatin Remodeling Factor; Retinoblastoma-Binding Protein 4; RbAp48; NURF55; Lin-53; Nucleosome-Remodeling Factor Subunit RBAP48; Chromatin Assembly Factor I P48 Subunit; Chromatin Assembly Factor 1 Subunit C; Retinoblastoma-Binding Protein P48; Histone-Binding Protein RBBP4; CAF-I 48 KDa Subunit; CAF-1 Subunit C; CAF-I P48; RBBP-4; Chromatin Assembly Factor/CAF-1 P48 Subunit; Retinoblastoma Binding Protein 4; MSI1 Protein Homolog; RBAP48**
Immunogen	**A synthesized peptide derived from human RbAp48**

KD-Validated Anti-RBBP4 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**5928**

Other Names
Histone-binding protein RBBP4, Chromatin assembly factor 1 subunit C, CAF-1 subunit C, Chromatin assembly factor I p48 subunit, CAF-I 48 kDa subunit, CAF-I p48, Nucleosome-remodeling factor subunit RBAP48, Retinoblastoma-binding protein 4, RBBP-4, Retinoblastoma-binding protein p48, RBBP4, RBAP48

KD-Validated Anti-RBBP4 Rabbit Monoclonal Antibody - Protein Information

Name RBBP4

Synonyms RBAP48

Function
Core histone-binding subunit that may target chromatin assembly factors, chromatin remodeling factors and histone deacetylases to their histone substrates in a manner that is regulated by nucleosomal DNA (PubMed:<a href="http://www.uniprot.org/citations/10866654"

target="_blank">10866654). Component of the chromatin assembly factor 1 (CAF-1) complex, which is required for chromatin assembly following DNA replication and DNA repair (PubMed:8858152). Component of the core histone deacetylase (HDAC) complex, which promotes histone deacetylation and consequent transcriptional repression (PubMed:9150135). Component of the nucleosome remodeling and histone deacetylase complex (the NuRD complex), which promotes transcriptional repression by histone deacetylation and nucleosome remodeling (PubMed:16428440, PubMed:28977666, PubMed:39460621). Component of the PRC2 complex, which promotes repression of homeotic genes during development (PubMed:29499137, PubMed:31959557). Component of the NURF (nucleosome remodeling factor) complex (PubMed:14609955, PubMed:15310751).

Cellular Location
Nucleus. Chromosome, telomere. Note=Localizes to chromatin as part of the PRC2 complex.

Tissue Location
Expressed in neuroblastoma cells.

KD-Validated Anti-RBBP4 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-RBBP4 Rabbit Monoclonal Antibody - Images

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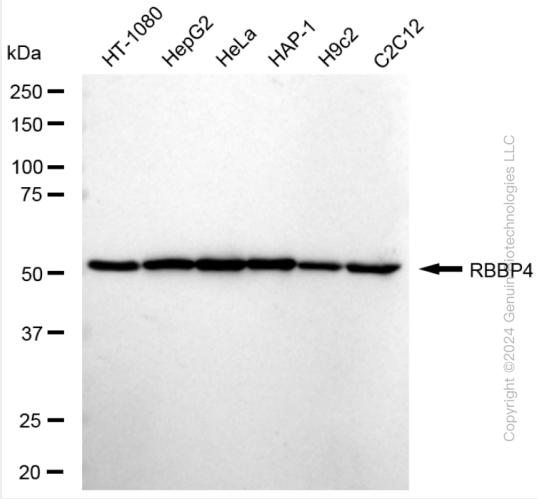
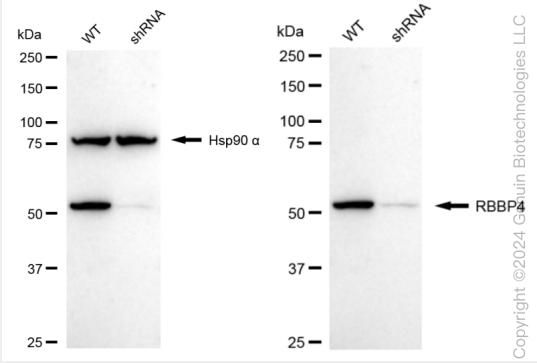
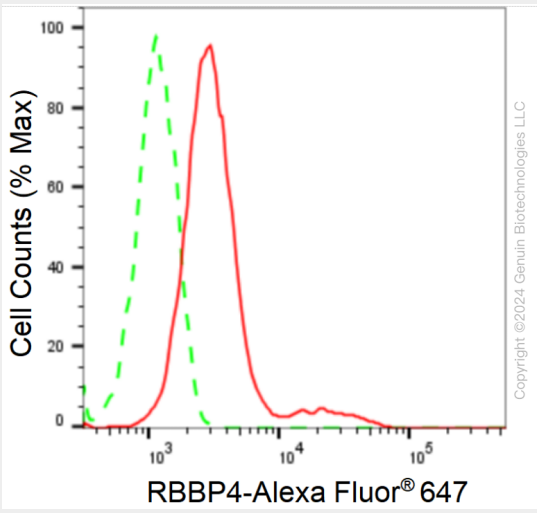


Western blotting analysis using anti-RBBP4 antibody (Cat#AGI1664). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-RBBP4 antibody (Cat#AGI1664, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-RBBP4 antibody (Cat#AGI1664). RBBP4 expression in wild type (WT) and RBBP4 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-RBBP4 antibody (Cat#AGI1664, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of RBBP4 expression in HepG2 cells using anti-RBBP4 antibody (Cat#AGI1664, 1:2,000). Green, isotype control; red, RBBP4.

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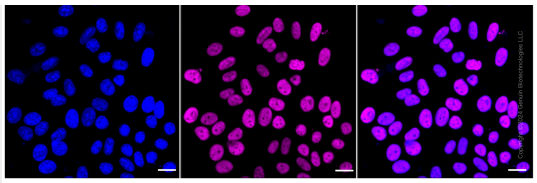

Immunocytochemical staining of HepG2 cells with anti-RBBP4 antibody (Cat#AGI1664, 1:1,000). Nuclei were stained blue with DAPI; RBBP4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.