

## ARG59051 anti-RBBP4 / RbAp48 antibody [9F3]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [9F3] recognizes RBBP4 / RbAp48
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	9F3
Isotype	IgG1
Target Name	RBBP4 / RbAp48
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 395-425 of Human RbAp48 (EDNIMQVWQMAENIYNDEDPEGSVDPEGQGS)
Conjugation	Un-conjugated
Alternate Names	Retinoblastoma-binding protein 4; Retinoblastoma-binding protein p48; Chromatin assembly factor I p48 subunit; Nucleosome-remodeling factor subunit RBAP48; RBBP-4; NURF55; lin-53; CAF-I p48; CAF-I 48 kDa subunit; Chromatin assembly factor 1 subunit C; CAF-1 subunit C; RBAP48; Histone-binding protein RBBP4

### Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	53 kDa	

### Properties

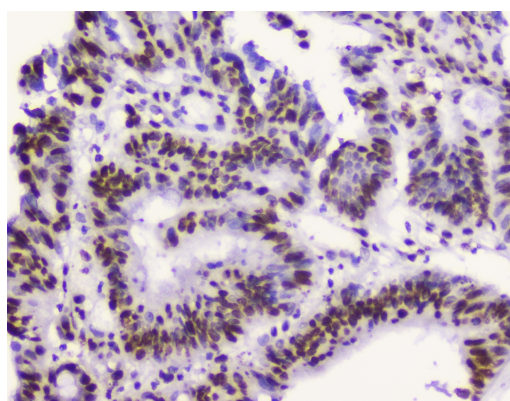
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

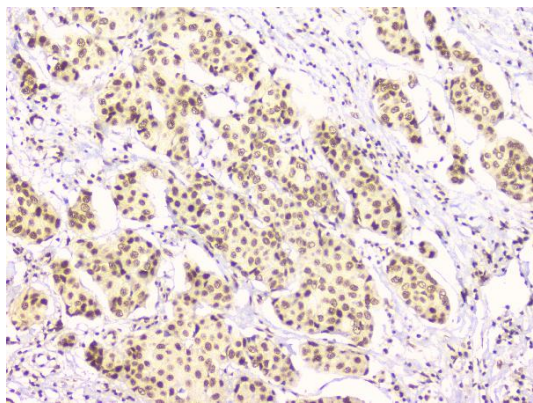
Gene Symbol	RBBP4
Gene Full Name	retinoblastoma binding protein 4
Background	This gene encodes a ubiquitously expressed nuclear protein which belongs to a highly conserved subfamily of WD-repeat proteins. It is present in protein complexes involved in histone acetylation and chromatin assembly. It is part of the Mi-2 complex which has been implicated in chromatin remodeling and transcriptional repression associated with histone deacetylation. This encoded protein is also part of co-repressor complexes, which is an integral component of transcriptional silencing. It is found among several cellular proteins that bind directly to retinoblastoma protein to regulate cell proliferation. This protein also seems to be involved in transcriptional repression of E2F-responsive genes. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008]
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. Component of several complexes which regulate chromatin metabolism. These include the chromatin assembly factor 1 (CAF-1) complex, which is required for chromatin assembly following DNA replication and DNA repair; the core histone deacetylase (HDAC) complex, which promotes histone deacetylation and consequent transcriptional repression; the nucleosome remodeling and histone deacetylase complex (the NuRD complex), which promotes transcriptional repression by histone deacetylation and nucleosome remodeling; the PRC2/EED-EZH2 complex, which promotes repression of homeotic genes during development; and the NURF (nucleosome remodeling factor) complex. [UniProt]
Calculated Mw	48 kDa
Cellular Localization	Nucleus. [UniProt]

## Images



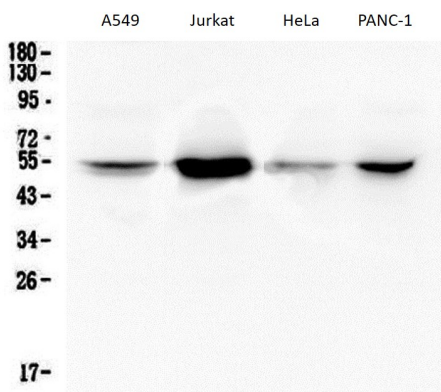
ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] at 2 µg/ml dilution, overnight at 4°C.



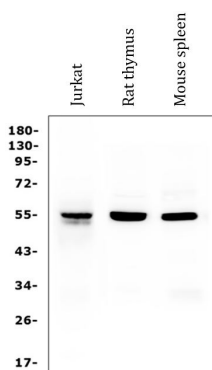
ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] at 1 µg/ml dilution, overnight at 4°C.



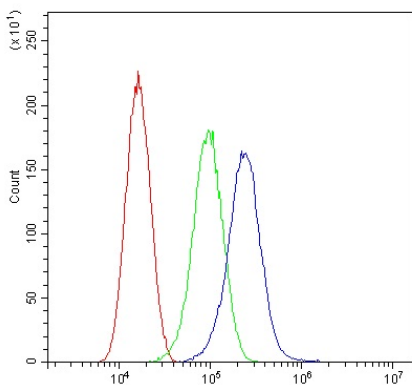
ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] WB image

Western blot: 50 µg of samples under reducing conditions. A549, Jurkat, HeLa and PANC-1 cell lysates stained with ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] at 0.5 µg/ml, overnight at 4°C.



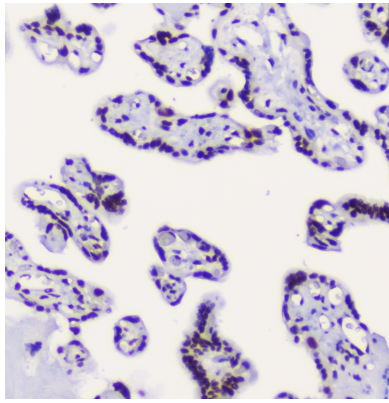
ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] WB image

Western blot: 50 µg of sample under reducing conditions. Jurkat, Rat thymus and Mouse spleen lysates stained with ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] at 0.5 µg/ml dilution, overnight at 4°C.



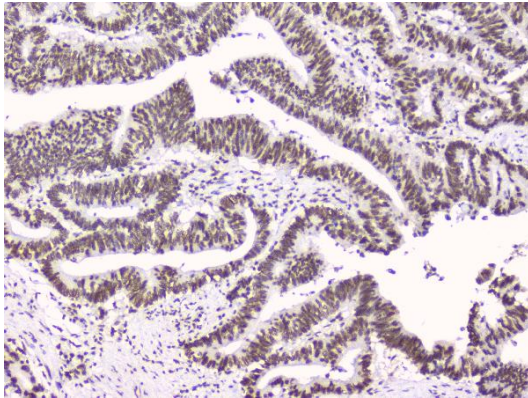
ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] FACS image

Flow Cytometry: SiHa cells were blocked with 10% normal goat serum and then stained with ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] (blue) at 1 µg/10<sup>6</sup> cells for 30 min at 20°C, followed by incubation with DyLight<sup>®</sup>488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



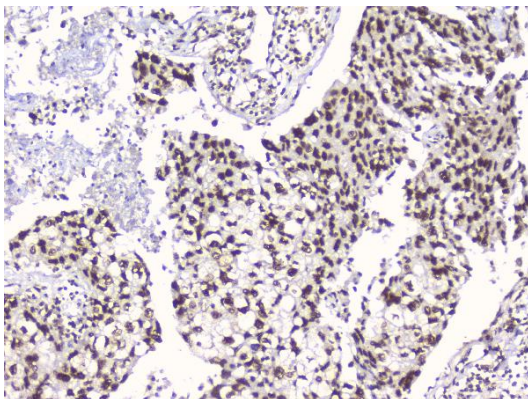
ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Heat mediated was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] at 2 µg/ml dilution, overnight at 4°C.



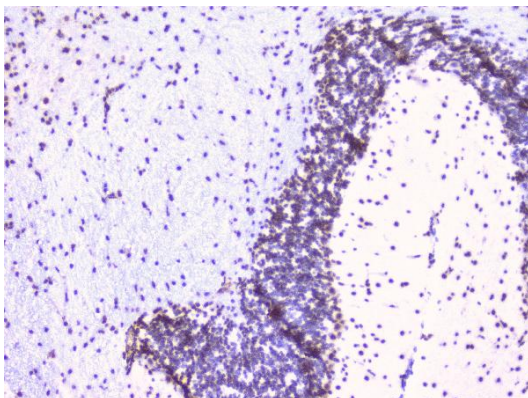
ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] IHC-P image

Immunohistochemistry: Paraffin-embedded Human intestinal cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] at 1 µg/ml dilution, overnight at 4°C.



ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] IHC-P image

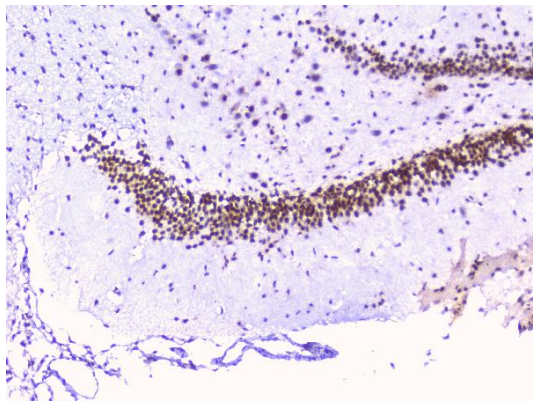
Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] at 1 µg/ml dilution, overnight at 4°C.



ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] at 1 µg/ml dilution, overnight at 4°C.





ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59051 anti-RBBP4 / RbAp48 antibody [9F3] at 1 µg/ml dilution, overnight at 4°C.