

Mouse RbAp48 Monoclonal Antibody | anti-RbAp48 antibody

Anti-RbAp48 Antibody (monoclonal, 9F3)

CATALOG # AAA125154	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

RbAp48; Monoclonal Antibody; Anti-RbAp48 Antibody (monoclonal; 9F3); 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; Retinoblastoma binding protein 4; anti-RbAp48 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	9F3
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	424
Applicable Applications for anti-RbAp48 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human RbAp48 (395-425aa EDNIMQVWQMAENIYNDEDPEGSVDPEGQGS), identical to the related mouse sequence.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



WB (Western Blot)

Figure 3. Western blot analysis of RbAp48 using anti-RbAp48 antibody (M02702-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human A549 whole cell lysate, Lane 2: human Jurkat whole cell lysate, Lane 3: human Hela whole cell lysate, Lane 4: human PANC-1 whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-RbAp48 antigen affinity purified monoclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system.



IHC (Immunohistochemistry)

Figure 1. IHC analysis of RbAp48 using anti-RbAp48 antibody (M02702-1). RbAp48 was detected in paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml mouse anti-RbAp48 Antibody (M02702-1) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 3. Western blot analysis of RbAp48 using anti-RbAp48 antibody (M02702-1). Electrophoresis was performed on a 10% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human A549 whole cell lysate, Lane 2: human Jurkat whole cell lysate, Lane 3: human Hela whole cell lysate, Lane 4: human PANC-1 whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-RbAp48 antigen affinity purified monoclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system.

ADDITIONAL INFORMATION

Related Product Information for anti-RbAp48 antibody	Description: Mouse IgG monoclonal antibody for RbAp48 detection. Tested with WB, IHC-P in Human; Mouse; Rat. Background: Histone-binding protein RBBP4 (also known as RbAp48, or NURF55) is a protein that in humans is encoded by the RBBP4 gene. 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. And 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.
References	1. "Entrez Gene: RBBP4 retinoblastoma-binding protein 4". 2. Barak O, Lazzaro MA, Lane WS, Speicher DW, Picketts DJ, Shiekhatter R (November 2003). "Isolation of human NURF: a regulator of Engrailed gene expression". EMBO J 22 (22): 6089-100. 3. Qian YW, Wang YC, Hollingsworth RE Jr, Jones D, Ling N, Lee EY (September 1993). "A retinoblastoma-binding protein related to a negative regulator of Ras in yeast". Nature 364 (6438): 648-52.

NCBI AND UNIPROT INFORMATION

NCBI GI #	207029415
NCBI GeneID	5928
NCBI Accession #	NP_001128727.1
NCBI GenBank Nucleotide #	NM_001135255.1
UniProt Accession #	Q09028; P31149; Q53H02; Q96BV9; B2R6G9; B4DRH0; D3DPQ3
Molecular Weight	47,585 Da

NCBI Official Full Name	histone-binding protein RBBP4 isoform b
NCBI Official Synonym Full Names	RB binding protein 4, chromatin remodeling factor
NCBI Official Symbol	RBBP4
NCBI Official Synonym Symbols	NURF55; RBAP48; lin-53
NCBI Protein Information	histone-binding protein RBBP4
UniProt Protein Name	Histone-binding protein RBBP4
UniProt Gene Name	RBBP4
UniProt Synonym Gene Names	RBAP48; CAF-1 subunit C; CAF-I 48 kDa subunit; CAF-I p48; RBBP-4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rbap48-antibody-clone-9f3-immunohistochemistry-western-blot-elisa/125154>