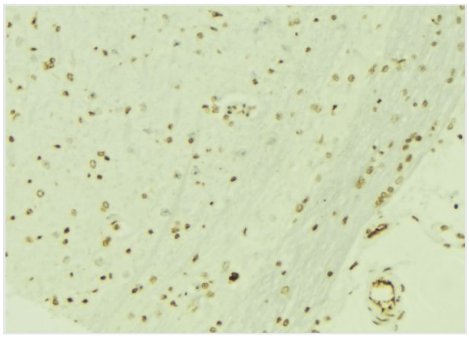
RBBP4 Antibody – Rabbit Polyclonal

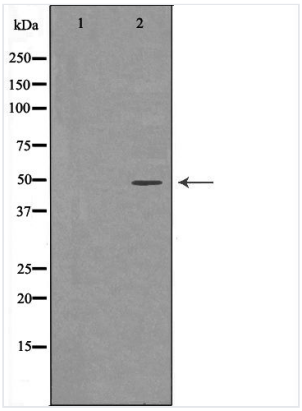
PRODUCT OVERVIEW

Product Name	RBBP4, Polyclonal Antibody
Full Product Name	RBBP4 Antibody
Product Gene Name	anti-RBBP4 antibody
Product Synonym Names	CAF I p48; CAF-1 subunit C; CAF-I 48 kDa subunit; CAF-I p48; Chromatin assembly factor 1 subunit C; Chromatin assembly factor I p48 subunit; Chromatin assembly factor/CAF 1 p48 subunit; Histone-binding protein RBBP4; MSI1 protein homolog; Nucleosome-remodeling factor subunit RBAP48; NURF55; RbAp 48; RBAP48; RBBP-4; RBBP4; RBBP4_HUMAN; Retinoblastoma binding protein 4; Retinoblastoma binding protein p48; Retinoblastoma-binding protein 4; Retinoblastoma-binding protein p48
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Concentration	1mg/ml (lot specific)
Specificity	RBBP4 antibody detects endogenous levels of total RBBP4
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	RBBP4 peptide (MBS9625800) is used for blocking the activity of RBBP4 antibody (MBS9607084)
Molecular Weight	Observed: 48 kDa Predicted: 48 kDa
3D Structure	ModBase 3D Structure for Q09028
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from human RBBP4
Subcellular Location	Nucleus.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Dog, Chicken**
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RBBP4 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-RBBP4 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200

Related Product Information for anti-RBBP4 antibody	Description: Retinoblastoma-associated proteins 46 and 48 (RBAP46 and RBAP48; also known as RBBP7 and RBBP4) were first characterized in human cells as proteins that bind to the retinoblastoma (Rb) tumor suppressor protein (1). Since then, these proteins have been shown to be components of many protein complexes involved in chromatin regulation, including the chromatin assembly factor 1 (CAF-1) complex and type B histone acetyltransferase complex HAT1, both of which function in chromatin assembly during DNA replication (2, 3). RBAP46 and RBAP48 are also found in the nucleosome remodeling factor complex NURF, the nucleosome remodeling and histone de-acetylation complex NuRD, and the Sin3/HDAC histone de-acetylation complex (4-7). More recently, RBAP46 and RBAP48 were identified as components of the polycomb repressor complex PRC2, which also contains EED and Ezh2 (8). RBAP46 and RBAP48 bind to the histone fold region of histone H4 and are believed to target these chromatin remodeling, histone acetylation, and histone de-acetylation complexes to their histone substrates (3). 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. Subunit Structure: Interacts with SUV39H1 and HDAC7 (By similarity). Binds directly to helix 1 of the histone fold of histone H4, a region that is not accessible when H4 is in chromatin. Subunit of the chromatin assembly factor 1 (CAF-1) complex, which is composed of RBBP4, CHAF1B and CHAF1A. Subunit of the core histone deacetylase (HDAC) complex, which is composed of HDAC1, HDAC2, RBBP4 and RBBP7. The core HDAC complex associates with SIN3A, ARID4B/SAP180, SAP18, SAP30, SAP130, SUDS3/SAP45 and possibly ARID4A/RBP1 and ING1 to form the SIN3 HDAC complex. The core HDAC complex may also associate with MTA2, MBD3, CHD3 and CHD4 to form the nucleosome remodeling and histone deacetylase complex (the NuRD complex). The NuRD complex may also interact with MBD3L1 and MBD3L2. Interacts with MTA1. Subunit of the PRC2/EED-EZH2 complex, which is composed of at least EED, EZH2, RBBP4, RBBP7 and SUZ12. The PRC2/EED-EZH2 complex may also associate with HDAC1. Component of the PRC2/EED-EZH1 complex, which includes EED, EZH1, SUZ12, RBBP4 and AEBP2. Part of the nucleosome remodeling factor (NURF) complex which consists of SMARCA1; BPTF; RBBP4 and RBBP7. Interacts with the viral protein-binding domain of the retinoblastoma protein (RB1). Interacts with SPEN/MINT. Interacts with BRCA1. Interacts with CREBBP, and this interaction may be enhanced by the binding of phosphorylated CREB1 to CREBBP. Component of the DREAM complex (also named LINC complex) at least composed of E2F4, E2F5, LIN9, LIN37, LIN52, LIN54, MYBL1, MYBL2, RBL1, RBL2, RBBP4, TFDP1 and TFDP2. The complex exists in quiescent cells where it represses cell cycle-dependent genes. It dissociates in S phase when LIN9, LIN37, LIN52 and LIN54 form a subcomplex that binds to MYBL2. Interacts with PHF6 (By similarity). Found in a complex composed of at least SINHCAF, SIN3A, HDAC1, SAP30, RBBP4, OGT and TET1 (By similarity). Similarity: Belongs to the WD repeat RBAP46/RBAP48/MSI1 family.
Other Notes	Small volumes of anti-RBBP4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RBBP4 purchase	MBS9607084 is an antibody targeting RBBP4. Also known as RBBP4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-RBBP4 antibody
MBS9607084 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blot (WB) of anti-RBBP4 antibody
Western blot analysis of Hela whole cell lysates, using RBBP4 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RBBP4. It may not necessarily be applicable to this product.

NCBI GI #	207029415
NCBI GeneID	5928
NCBI Accession #	NP_001128727.1
UniProt Primary Accession #	Q09028
UniProt Secondary Accession #	P31149; Q53H02; Q96BV9; B2R6G9; B4DRH0; D3DPQ3
UniProt Related Accession #	Q09028
GenBank Nucleotide #	NM_001135255.1
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
UniProt Protein Name	Histone-binding protein RBBP4
UniProt Synonym Protein Names	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
Protein Family	Histone-binding protein
UniProt Gene Name	RBBP4
UniProt Synonym Gene Names	RBAP48; CAF-1 subunit C; CAF-I 48 kDa subunit; CAF-I p48; RBBP-4
NCBI Protein Information	histone-binding protein RBBP4
NCBI Summary for RBBP4	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]
UniProt Comments for RBBP4	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.
Research Articles on RBBP4	**1.** The MTA1 subunit of the nucleosome remodeling and deacetylase complex can recruit two copies of RBBP4/RBBP7.
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