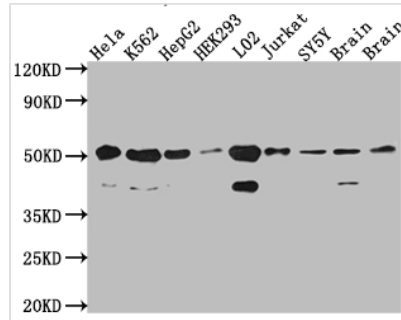




RBBP4 Antibody

Product Code	CSB-RA915915A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q09028
Immunogen	A synthesized peptide derived from human RbAp48
Species Reactivity	Human, Mouse, Rat
Tested Applications	ELISA, WB, IHC, IF; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IF:1:20-1:200
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling; Cancer
Gene Names	RBBP4
Accession NO.	3E9
Image	


Western Blot

Positive WB detected in: HeLa whole cell lysate, K562 whole cell lysate, HepG2 whole cell lysate, HEK293 whole cell lysate, L02 whole cell lysate, Jurkat whole cell lysate, SH-SY5Y whole cell lysate, Mouse Brain whole cell lysate, Rat Brain cell lysate

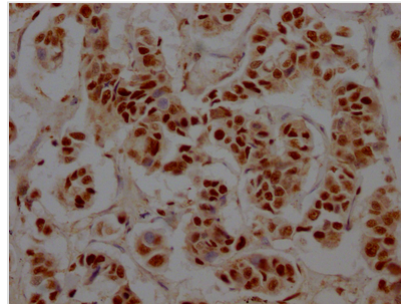
All lanes: RbAp48 antibody at 1:1000

Secondary

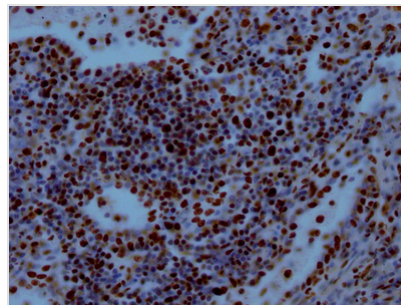
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 48, 48, 47, 44 kDa

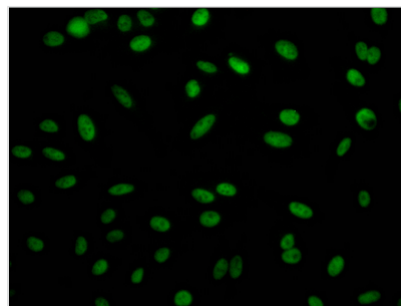
Observed band size: 53, 40 kDa



IHC image of CSB-RA915915A0HU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA915915A0HU diluted at 1:100 and staining in paraffin-embedded human lung tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence staining of HeLa Cells with CSB-RA915915A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

RBBP4 contributes to the repression of gene transcription as a key member of the nucleosome remodeling and deacetylation (NURD) complex, polycomb repressor complex 2 (PRC2), and SIN3- chromatin-modulating complexes. As a member of the chromatin assembly factor 1 (CAF1) complex, RBBP4 regulates chromatin assembly in normal replication and during the repair of DNA damage. RBBP4 interacts with ep300 protein to form a complex that drives the expression of methylguanine-DNA-methyltransferase, RAD51, and other



selected DNA repair genes through histone acetylation.

The main production processes of this recombinant RBBP4 antibody included immunization, B cell harvest, antibody secreting cell enrichment, single cell sequencing, antibody expression and purification. The single B cell screening platform was used for the RBBP4 antibody gene screening. And this RBBP4 antibody was tested in ELISA, WB, IHC, IF.