

For Research Use Only

# RBAP48 Monoclonal antibody

Catalog Number: 66060-1-Ig

Featured Product

1 Publications



## Basic Information

<b>Catalog Number:</b> 66060-1-Ig	<b>GenBank Accession Number:</b> BC053904	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1233 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5928	<b>CloneNo.:</b> 5C4D6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q09028	<b>Recommended Dilutions:</b> WB 1:2000-1:12000 IHC 1:20-1:200 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> retinoblastoma binding protein 4	
<b>Immunogen Catalog Number:</b> AG6196	<b>Calculated MW:</b> 48 kDa	
	<b>Observed MW:</b> 53 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, FC (Intra), ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** HEK-293 cells, HeLa cells, NIH/3T3 cells, RAW 264.7 cells, Jurkat cell, ROS1728 cells, HSC-T6 cells, L02 cells

**IHC :** human cervical cancer tissue, human testis tissue

**IF/ICC :** HepG2 cells,

## Background Information

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 that 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/NuRD complex complex that has been implicated in chromatin remodeling and transcriptional repression associated with histone deacetylation. This encoded protein is also part of corepressor 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. A decrease of RbAp48 in the dentate gyrus (DG) of the hippocampus in the brain is suspected to be a main cause of memory loss in normal aging (PMID: 23986399).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenxiu Dai	38272027	Dev Cell	

## Storage

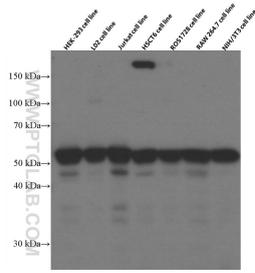
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

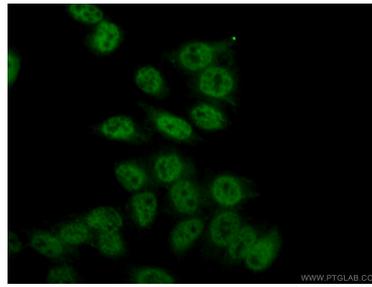
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

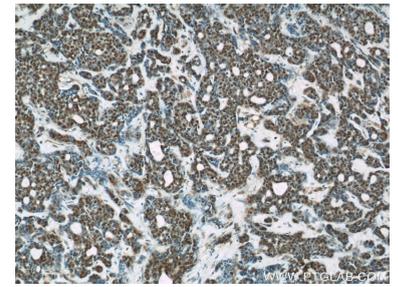
## Selected Validation Data



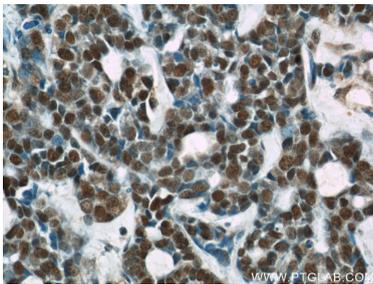
Various lysates were subjected to SDS PAGE followed by western blot with 66060-1-Ig (RBAP48 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



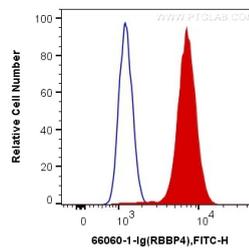
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66060-1-Ig (RBAP48 antibody) at dilution of 1:100 and CoraLite488-Conjugated Goat Anti-Mouse IgG(H+L).



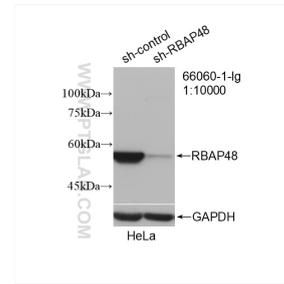
Immunohistochemical analysis of paraffin-embedded human cervical cancer using 66060-1-Ig (RBAP48 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human cervical cancer using 66060-1-Ig (RBAP48 antibody) at dilution of 1:200 (under 40x lens).



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.2 ug Anti-Human RBAP48 (66060-1-Ig, Clone:5C4D6) and CoraLite@488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Mouse IgG2b Isotype Control (66360-3-Ig, Clone: K11B8C4B5) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



WB result of RBAP48 antibody (66060-1-Ig; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-RBP48 transfected HeLa cells.