

## RDM1 Monoclonal antibody

Catalog Number: 66941-1-Ig

## Basic Information

<b>Catalog Number:</b> 66941-1-Ig	<b>GenBank Accession Number:</b> BC038301	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1600 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 201299	<b>CloneNo.:</b> 1C10B4
<b>Source:</b> Mouse	<b>Full Name:</b> RAD52 motif 1	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:150-1:600 IF 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 284 aa, 32 kDa	
<b>Immunogen Catalog Number:</b> AG28686	<b>Observed MW:</b> 32 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, Mouse, Rat	<b>WB :</b> PC-3 cells, HEK-293 cells, HSC-T6 cells, RAW 264.7 cells
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human thyroid cancer tissue,
	<b>IF :</b> A549 cells,

## Background Information

RDM1, also named as RAD52B, encodes a RNA recognition motif (RRM)-containing protein conferred resistance to the antitumor agent cisplatin. The expression of RDM1 is closely related to the cell proliferation and apoptosis of thyroid carcinoma cells and RDM1 may be a potential marker of lung adenocarcinoma. RDM1 has many isoforms (8 kDa, 12-19 kDa and 25-32 kDa) with long or short N-terminus and a great diversity in the exonic composition of C-terminus generated by alternative pre-mRNA splicing and differential usage of two translational start sites. RDM1 protein can be expressed differently in cytoplasm or nuclear/nucleolar in the absence of stress, proteotoxic stress and mild heat shock, suggesting functional differences among the RDM1 proteins. ( PMID: 28939762, 17905820, 28939762, 30069034)

## Storage

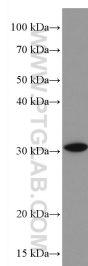
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

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

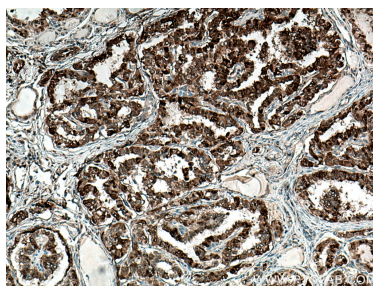
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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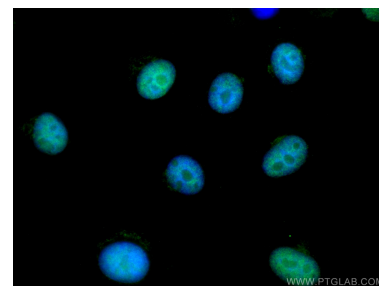
## Selected Validation Data



PC-3 cells were subjected to SDS PAGE followed by western blot with 66941-1-Ig (RDM1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 66941-1-Ig (RDM1 antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using RDM1 antibody (66941-1-Ig, Clone: 1C10B4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).