

For Research Use Only

# Raptor Monoclonal antibody

Catalog Number: 68286-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 68286-1-Ig	<b>GenBank Accession Number:</b> BC136654	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 57521	<b>CloneNo.:</b> 1B8A12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8N122	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG2b	<b>Full Name:</b> raptor	
<b>Immunogen Catalog Number:</b> AG30131	<b>Calculated MW:</b> 1335 aa, 149 kDa	
	<b>Observed MW:</b> 130-150 kDa	

## Applications

<b>Tested Applications:</b> WB, IP, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB	<b>WB :</b> MCF-7 cells, LNCaP cells, HEK-293 cells, MOLT-4 cells, Jurkat cells, HeLa cells, K-562 cells
<b>Species Specificity:</b> Human	<b>IP :</b> HeLa cells,
<b>Cited Species:</b> human	

## Background Information

RPTOR, also named as KIAA1303 and RAPTOR Belongs to the WD repeat RAPTOR family. It is involved in the control of the mammalian target of rapamycin complex 1 (mTORC1) activity which regulates cell growth and survival, and autophagy in response to nutrient and hormonal signals; functions as a scaffold for recruiting mTORC1 substrates. mTORC1 is activated in response to growth factors or amino-acids. Amino-acid-signaling to mTORC1 is mediated by Rag GTPases, which cause amino-acid-induced relocalization of mTOR within the endomembrane system. Activated mTORC1 up-regulates protein synthesis by phosphorylating key regulators of mRNA translation and ribosome synthesis. mTORC1 phosphorylates EIF4EBP1 and releases it from inhibiting the elongation initiation factor 4E (eIF4E). mTORC1 phosphorylates and activates S6K1 at 'Thr-389', which then promotes protein synthesis by phosphorylating PDCD4 and targeting it for degradation.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lixin He	37751742	Mol Cell	WB

## Storage

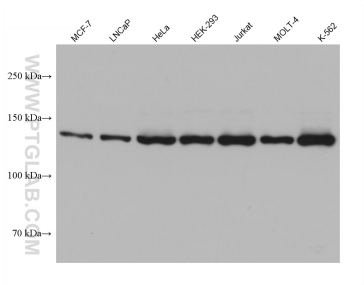
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

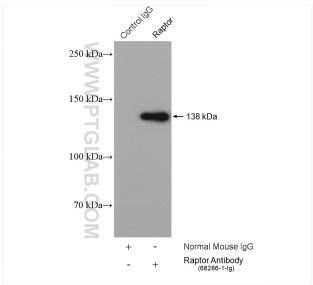
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68286-1-Ig (Raptor antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-Raptor (IP:68286-1-Ig, 4ug; Detection:68286-1-Ig 1:1000) with HeLa cells lysate 1800 ug.