

For Research Use Only

Raptor Monoclonal antibody

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



Basic Information

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

Applications

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

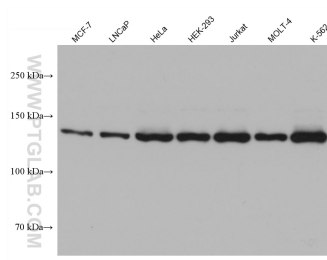
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

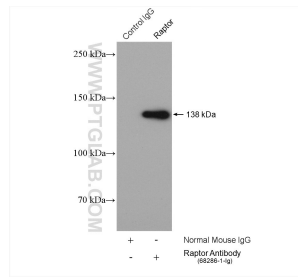
For technical support and original validation data for this product please contact:
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Selected Validation Data



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.