## For Research Use Only

## mTOR Polyclonal antibody Catalog Number:28273-1-AP Featured Product

126 Publications



Basic Information	Catalog Number: 28273-1-4P	alog Number: GenBank Accession Number:		Purification Method:	
	Concentration:	GenelD (N	ICBI):	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:50-1:500	
	600 µg/ml	2475			
	Source: Rabbit	UNIPROT P42345	ID:		
	Isotype: IgG Immunogen Catalog Number: AG28395	Full Name FK506 bin associate	e: Iding protein 12-rapamycin d protein 1		
		<mark>Calculate</mark> 289 kDa	d MW:		
		Observed 250-289 k	MW: Da		
Applications	Tested Applications: Positive Co		rols:		
	WB, IHC, IF/ICC, IP, ELISA		WB: HeLa cell	La cells, HepG2 cells, Rapamycin treated HEK	
	Cited Applications: 293   WB, IHC, IF MC   Species Specificity: IP:   Human IHC   Cited Species: can   human, mouse, rat, rabbit, monkey, chicken, bovine and		293T cells, PC MCF-7 cells	2931 cells, PC-3 cells, MCF-7 cells, Rapamycin treated MCF-7 cells	
			IP : HeLa cells	IP : HeLa cells,	
			IHC : human p	uman prostate cancer tissue, human breast tissue	
			cancer tissue		
	TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	MTOR, also named as FRAP1, FRAP, FRAP2 and RAPT1, belongs to the PI3/PI4-kinase family. MTOR is a Ser/Thr protein kinase that functions as an ATP and amino acid sensor to balance nutrient availability and cell growth. MTOR is kinase subunit of both mTORC1 and mTORC2, which regulate cell growth and survival in response to nutrient and hormonal signals. mTORC1 is activated in response to growth factors or amino-acids. mTORC2 is also activated by growth factors, but seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. MTOR has a calculated molecular mass of 289 kDa, and always can be detected at about 250 kDa due to some modifications (PMID: 14578359).				
Notable Publications	Author	Pubmod ID	lournal	Application	
	libualuo	3/1502005	1 Nanobiotechnology	WR	
		76165076	Free Padic Biol Med	WB	
	Chun Dan	761156/7	Tovicology	WB	
		50115047	Тохтсогоду	WB	
Storage	Storage: Store at -20°C. Stable for one ye	ear after shipmer	ıt.		
	Storage Buffer: PBS with 0.02% sodium azide a Aliquoting is unnecessary for -2	nd 50% glycerol 20°C storage	, pH7.3		

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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 28273-1-AP (mTOR antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of mTOR antibody (28273-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-mTOR transfected HeLa cells.



IP result of anti-mTOR (IP:28273-1-AP, 4ug; Detection:28273-1-AP 1:5000) with HeLa cells lysate 1720 ug.



Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 28273-1-AP (MTOR antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 28273-1-AP (MTOR antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using mTOR antibody (28273-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Non-treated and Rapamycin treated lysates were subjected to SDS PAGE followed by western blot with 28881-1-AP (Phospho-mTOR (Ser2448) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with mTOR antibody (28273-1-AP) and Vinculin (66305-1-Ig) subsequently.