For Research Use Only

mTOR Polyclonal antibody Catalog Number:20657-1-AP Featured Product

201 Publications



	Aliquoting is unnecessary	•••			
Storage	Storage: Store at -20°C. Stable for o Storage Buffer: DBS with 0.02% sodium at	one year after shipment. zide and 50% glycerol, pH7.3	3		
	Jing Chen	34650978	Front Cell Dev Biol	WB	
	Fan Wang	28990055	Mol Med Rep	WB	
	Samana Batool		Int J Mol Sci	WB	
Notable Publications	Author	Pubmed ID	Journal	Application	
Background Informatio	n MTOR, also named as FRA protein kinase that function MTOR is Kinase subunit of nutrient and hormonal sig activated by growth factor GTPases to regulate the ar- exchange factors. mTORC molecular mass of 289 kD	TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 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). The antibody is specific to MTOR.			
	human, mouse, rat, pig, canine, chicken, bovine, hamster, fish Note-IHC: suggested antigen retrieval with				
	human, mouse, rat Cited Species:	human, mouse, rat			
	WB, IHC, IF Species Specificity:	IF/ICC Helacells			
	Cited Applications:	Cited Applications: IHC : mouse		lls, MDA-MB-453s cells, HeLa cells estis tissue, human breast cancer tissue	
Applications	Tested Applications: WB, IF, IHC, ELISA		Positive Controls:		
		Observed MW:			
		Calculated MW: 289 kDa			
	Isotype: IgG				
	Rabbit	P42345		IHC: 1:50-1:500 IF/ICC: 1:50-1:500	
	Source:	UNIPROT ID:			
	Concentration: 327 µg/ml	GenelD (NCBI): 2475		Recommended Dilutions: WB: 1:500-1:1000	
Basic Information	20657-1-AP	NM_004958		Antigen affinity purification	

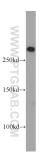
T: 4006900926

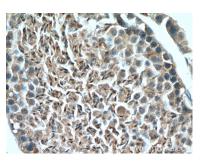
E: Proteintech-CN@ptglab.com

W: ptgcn.com

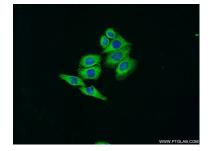
sively e under Pr Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data





MCF7 cells were subjected to SDS PAGE followed by western blot with 20657-1-AP (MTOR antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using 20657-1-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 HeLa cells using 20657-1-AP (MTOR antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).