For Research Use Only

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

Featured Product

203 Publications



Basic Information	Catalog Number: 20657-1-AP	GenBank Accession Number: NM_004958	Purification Method: Antigen affinity purification	
	Size:		Recommended Dilutions:	
	150ul , Concentration: 327 µg/ml by Bradford method using BSA as the standard;	GenelD (NCBI): 2475	WB: 1:500-1:1000	
		UNIPROT ID:	IHC: 1:50-1:500	
		P42345	IF/ICC: 1:50-1:500	
	Source: Rabbit Isotype: IgG	Full Name:		
		FK506 binding protein 12-rapamycin associated protein 1 Calculated MW:		
				289 kDa
		Observed MW:		
		Applications	Tested Applications:	Positive Controls:
WB, IF, IHC, ELISA	WB : MC		WB : MCF-7 cells, MDA-MB-453s cells, HeLa cells	
Cited Applications: WB, IHC, IF	IHC : mo		ouse testis tissue, human breast cancer tissue	
Species Specificity:	IF/ICC :		IF/ICC : HeLa cells,	
human, mouse, rat				
Cited Species:				
human, mouse, rat, pig, canine, chicken, bovine, hamster, fish				
Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen			
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 calculate 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.			
	GTPases to regulate the actin cytoske exchange factors. mTORC2 promotes molecular mass of 289 kDa, and alwa	the serum-induced formation of ays can be detected at about 250	e or more Rho-type guanine nucleotide stress-fibers or F-actin. MTOR has a calculat	
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	GTPases to regulate the actin cytoske exchange factors. mTORC2 promotes molecular mass of 289 kDa, and alwa 14578359). The antibody is specific to Author Put Samana Batool 300 Fan Wang 289 Jing Chen 344 Storage: Stora et -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 500	a the serum-induced formation of ays can be detected at about 250 o MTOR. Domed ID Journal 274346 Int J Mol Sci 2990055 Mol Med Rep 550978 Front Cell Dev ter shipment. 19% glycerol, pH7.3	e or more Rho-type guanine nucleotide stress-fibers or F-actin. MTOR has a calculat kDa due to some modifications (PMID: Application WB WB	
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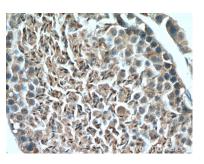
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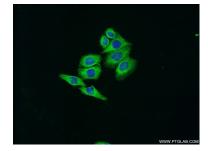
Group brand and is not available to purchase from any other manufacturer.

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).