Ablumir
Built Around Immunology

Anti-mTOR Rabbit mAb [87G89]

Catalog No.: A52224

Basic Information

Catalog No. (Cat.No.)	A52224
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	mTOR,FRAP1,RAFT1,FRAP

Product Information

Target	mTOR
Molecular Weight(Calculated)	289 kDa
Molecular Weight(Observed)	260 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	87G89
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:2000-1:10000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Mechanistic target of rapamycin
Gene Name	*MTOR*
Domain	NA
Background	mTOR (mammalian target of rapamycin) is a serine/threonine kinase belonging to the PI3K-related kinase family. It functions in two complexes, mTORC1 and mTORC2, governing cell proliferation, metabolism, autophagy and protein synthesis. Ser2448 and Ser2481 are two critical phosphorylation sites on mTOR. Phosphorylation at Ser2448 is predominantly mediated by AKT and serves as an activation marker of mTORC1 upon growth factor stimulation. Ser2481 is an autophosphorylation site reflecting intrinsic mTOR kinase activity and exists in both mTORC1 and mTORC2.