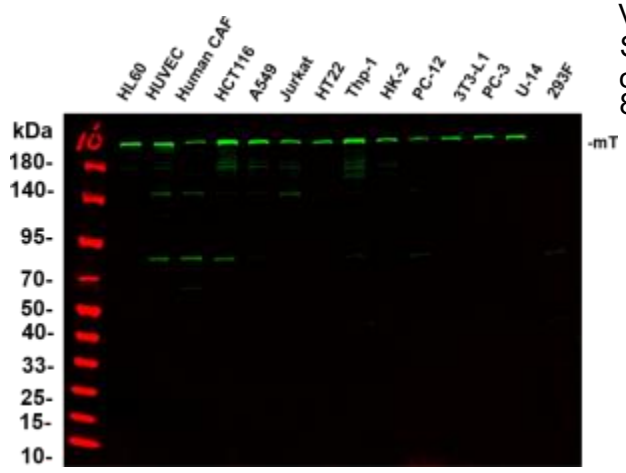
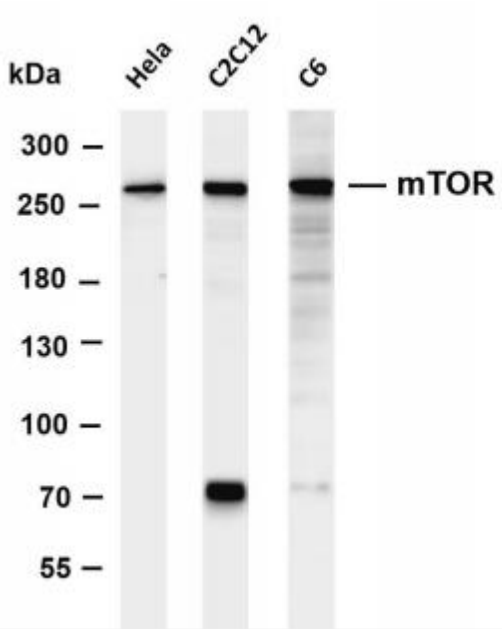
mTOR Rabbit mAb

Catalog No	YP-rAb-17818
Isotype	IgG
Reactivity	Human,Mouse,Rat,Chicken,Bovine,Pig
Applications	WB,IHC,IF,IP,ELISA
Gene Name	MTOR
Protein Name	Serine/threonine-protein kinase mTOR
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	MTOR ; FRAP ; FRAP1 ; FRAP2 ; RAFT1 ; RAPT1 ; Serine/threonine-protein kinase mTOR ; FK506-binding protein 12-rapamycin complex-associated protein 1 ; FKBP12-rapamycin complex-associated protein ; Mammalian target of rapamycin ; mTOR ; Mechanistic tar
Observed Band	260kD
Calculated Molecular Weight	289kD
Cell Pathway	Cytoplasm
Tissue Specificity	Expressed in numerous tissues, with highest levels in testis.
Function	Acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. Part of the TORC2 complex which plays a critical role in AKT1 Ser-473 phosphorylation, and may modulate the phosphorylation of PKCA and regulate actin cytoskeleton organization.,similarity:Belongs to the PI3/PI4-kinase family.,similarity:Contains 1 FAT domain.,similarity:Contains 1 FATC domain.,similarity:Contains 1 PI3K/PI4K domain.,similarity:Contains 7 HEAT repeats.,subunit:Interacts with the FKBP12-rapamycin complex. Binds UBQLN1. Forms part of the mammalian target of rapamycin 2 complex (TORC2) comprised of FRAP1, GBL, PRR5, RICTOR and SIN. TORC2 does not bind to

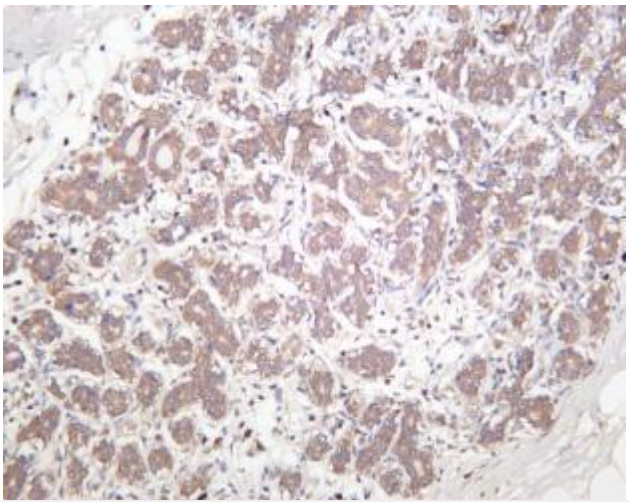
	and is not sensitive to FKBP12-rapamycin. Binds directly to PRR5 and RICTOR within the TORC2 complex.,tissue specificity:Expressed in numerous tissues, with highest levels in testis.,
Background	The protein encoded by this gene belongs to a family of phosphatidylinositol kinase-related kinases. These kinases mediate cellular responses to stresses such as DNA damage and nutrient deprivation. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. The ANGPTL7 gene is located in an intron of this gene. [provided by RefSeq, Sep 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



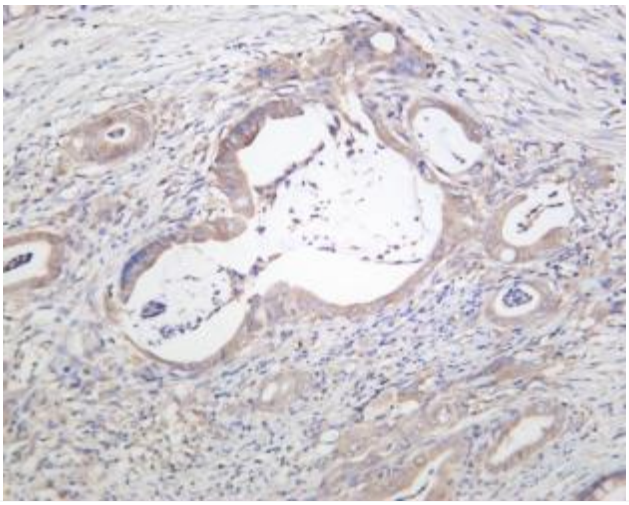
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4℃, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody



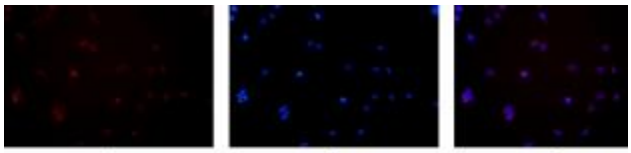
Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-mTOR antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: C2C12 Lane 4: C6 Predicted band size: 289kDa Observed band size: 260kDa



Human breast carcinoma was stained with anti-mTOR rabbit antibody



Human colon carcinoma was stained with anti-mTOR rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: mTOR antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B