

mTOR Rabbit pAb

CatalogNo: YT2913 **Orthogonal Validated** 

| Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Bovine, Chicken, Pig

Applications

- WB, IHC, IF, ELISA

MW

- 289kD (Observed)

Isotype

- IgG

| Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Recommended Dilution Ratios

WB 1:500-2000

IHC 1:100-500

IF/ICC 1:100-500

ELISA 1:5000-20000

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human mTOR. AA range:2447-2496

Specificity mTOR Polyclonal Antibody detects endogenous levels of mTOR protein.

Target Information

Gene name MTOR

Protein Name Serine/threonine-protein kinase mTOR

Organism	Gene ID	UniProt ID
Human	2475;	P42345;
Mouse	56717;	Q9JLN9;
Rat	56718;	P42346;

Cellular Localization

Endoplasmic reticulum membrane ; Peripheral membrane protein ; Cytoplasmic side . Golgi apparatus membrane ; Peripheral membrane protein ; Cytoplasmic side . Mitochondrion outer membrane ; Peripheral membrane protein ; Cytoplasmic side . Lysosome . Cytoplasm . Nucleus , PML body . Microsome membrane . Lysosome membrane . Cytoplasmic vesicle , phagosome . Shuttles between cytoplasm and nucleus. Accumulates in the nucleus in response to hypoxia (By similarity) . Targeting to lysosomes depends on amino acid availability and RRAGA and RRAGB (PubMed:18497260 , PubMed:20381137) . Lysosome targeting also depends on interaction with MEAK7. Translocates to the lysosome membrane in the presence of TM4SF5 (PubMed:30956113) . .

Tissue specificity Expressed in numerous tissues , with highest levels in testis.

Function

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. ,

Validation Data

Contact information

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