



mTOR (phospho Ser2448) (ANT0098R) Rabbit mAb

CatalogNo: ANT8326 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit

MW

- 289kD (Calculated)
250kD (Observed)

Reactivity

- Human,Mouse,Rat,

Isotype

- IgG,Kappa

Applications

- WB,IHC,IF,IP,ELISA

Recommended Dilution Ratios

IHC 1:500-1:2000

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200

Storage

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

Basic Information

Clonality Monoclonal

Clone Number ANT0098R

Target Information

Endogenous

Gene name

Protein Name

MTOR

Serine/threonine-protein kinase mTOR

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

Cellular

Localization

Cytoplasm

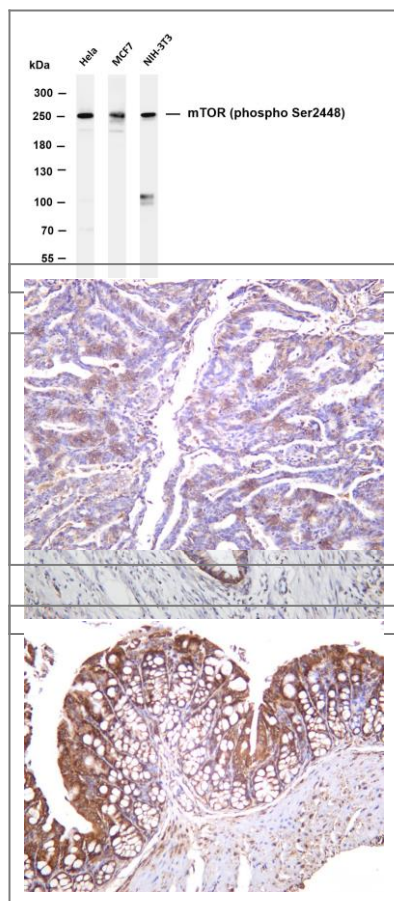
Tissue specificity

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



Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-mTOR (phospho Ser2448) (ANT0098R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: MCF7 Lane 3: NIH-3T3 Predicted band size: 289kDa Observed band size: 250kDa

Human colon carcinoma was stained with anti-mTOR (phospho Ser2448) (ANT0098R) rabbit antibody

Human endometrium carcinoma was stained with anti-mTOR (phospho Ser2448) (ANT0098R) rabbit antibody

Mouse colon was stained with anti-mTOR (phospho Ser2448) (ANT0098R) rabbit antibody

Rat colon was stained with anti-mTOR (phospho Ser2448) (ANT0098R) rabbit antibody

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