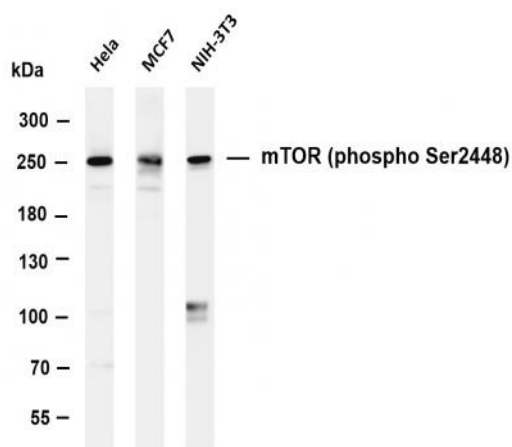


**mTOR (phospho Ser2448) (PT0498R) PT® Rabbit mAb**

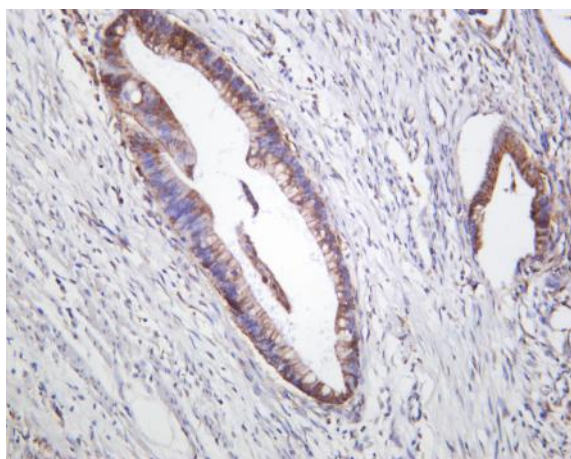
<b>Catalog No :</b>	YM8326
<b>Reactivity :</b>	Human; Mouse; Rat;
<b>Applications :</b>	WB;IHC;IF;IP;ELISA
<b>Target :</b>	mTOR
<b>Fields :</b>	>>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>ErbB signaling pathway;>>HIF-1 signaling pathway;>>Phospholipase D signaling pathway;>>Autophagy - other;>>Autophagy - animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Cellular senescence;>>Apelin signaling pathway;>>Neutrophil extracellular trap formation;>>JAK-STAT signaling pathway;>>Th17 cell differentiation;>>Thermogenesis;>>Insulin signaling pathway;>>Thyroid hormone signaling pathway;>>Adipocytokine signaling pathway;>>Type II diabetes mellitus;>>Insulin resistance;>>Growth hormone synthesis, secretion and action;>>Alzheimer disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Spinocerebellar ataxia;>>Pathways of neurodegeneration - multiple diseases;>>Shigellosis;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Kaposi sarcoma-associated herpesvirus infection;>>He
<b>Gene Name :</b>	MTOR
<b>Protein Name :</b>	Serine/threonine-protein kinase mTOR
<b>Human Gene Id :</b>	2475
<b>Human Swiss Prot No :</b>	P42345
<b>Mouse Gene Id :</b>	56717
<b>Mouse Swiss Prot No :</b>	Q9JLN9
<b>Rat Gene Id :</b>	56718
<b>Rat Swiss Prot No :</b>	P42346

<b>Specificity :</b>	endogenous
<b>Formulation :</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source :</b>	Monoclonal, rabbit, IgG, Kappa
<b>Dilution :</b>	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;
<b>Purification :</b>	Protein A
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	289kD
<b>Observed Band :</b>	250kD
<b>Cell Pathway :</b>	Regulates Angiogenesis; Insulin Receptor; ErbB/HER; mTOR; B Cell Receptor; PI3K/Akt; AMPK
<b>Background :</b>	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],
<b>Function :</b>	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.,
<b>Subcellular Location :</b>	Cytoplasm
<b>Expression :</b>	Expressed in numerous tissues, with highest levels in testis.

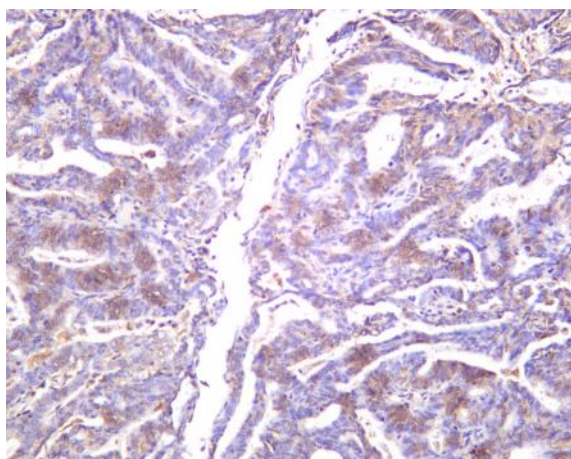
## Products Images



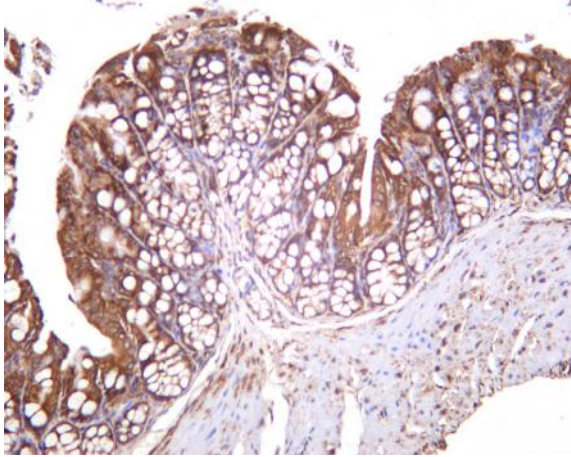
Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-mTOR (phospho Ser2448) (PT0498R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: MCF7 Lane 3: NIH-3T3 Predicted band size: 289kDa Observed band size: 250kDa



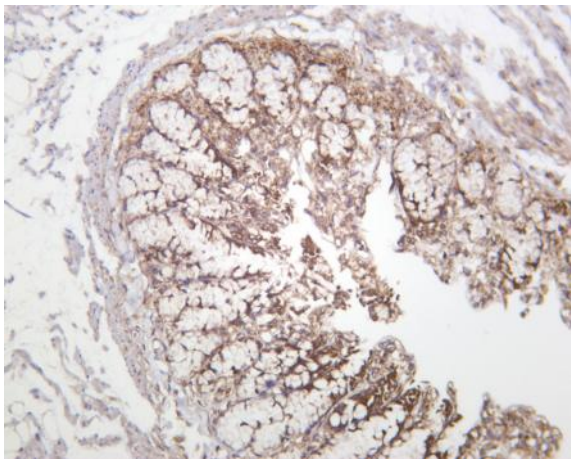
Human colon carcinoma was stained with anti-mTOR (phospho Ser2448) (PT0498R) rabbit antibody



Human endometrium carcinoma was stained with anti-mTOR (phospho Ser2448) (PT0498R) rabbit antibody



Mouse colon was stained with anti-mTOR (phospho Ser2448) (PT0498R) rabbit antibody



Rat colon was stained with anti-mTOR (phospho Ser2448) (PT0498R) rabbit antibody