

Datasheet for ABIN7268435
anti-MTOR antibody (pSer2448)



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3 Images

Overview

Quantity:	100 µL
Target:	MTOR (mTOR)
Binding Specificity:	pSer2448
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This MTOR antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Phospho-mTOR-S2448 Rabbit mAb
Immunogen:	A synthesized peptide derived from human Phospho-mTOR (S2448).
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Phosphorylated Antibodies
Purification:	Affinity purification

Target Details

Target:	MTOR (mTOR)
Alternative Name:	mTOR (mTOR Products)

Target Details

Background:	<p>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],FRAP,FRAP1,FRAP2,RAFT1,RAPT1,SKS,mTOR,MTOR,AMPK Signaling Pathway,Angiogenesis,Autophagy,Autophagy_Regulator,B Cell Receptor Signaling Pathway,Cancer,Cardiovascular,Cell Biology & Developmental Biology,Cell Cycle,Cell Cycle_Cell cycle inhibitors,DNA Damage & Repair,Endocrine & Metabolism,Endocrine and metabolic diseases,Endocrine and metabolic diseases_Obesity,Epigenetics & Nuclear Signaling,ErbB-HER Signaling Pathway,Heart,Heart_Cardiogenesis,IL-6 Receptor Signaling Pathway,Immunology & Inflammation,Insulin Receptor Signaling Pathway,Kinase,Kinase_Serine/threonine kinases,mTOR Signaling Pathway,PI3K-Akt Signaling Pathway,Protein phosphorylation,Signal Transduction,T Cell Receptor Signaling Pathway,TGF-b-Smad Signaling Pathway,Transcription Factors,Translation Control,Translational Control_Regulation of eIF4 and p70 S6 Kinase,Warburg Effect,mTOR</p>
Molecular Weight:	289kDa
Gene ID:	2475
UniProt:	P42345
Pathways:	PI3K-Akt Signaling , RTK Signaling , AMPK Signaling , Interferon-gamma Pathway , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Actin Filament Polymerization , Regulation of Muscle Cell Differentiation , Regulation of Cell Size , Skeletal Muscle Fiber Development , Regulation of Carbohydrate Metabolic Process , Autophagy , CXCR4-mediated Signaling Events , BCR Signaling , Warburg Effect

Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

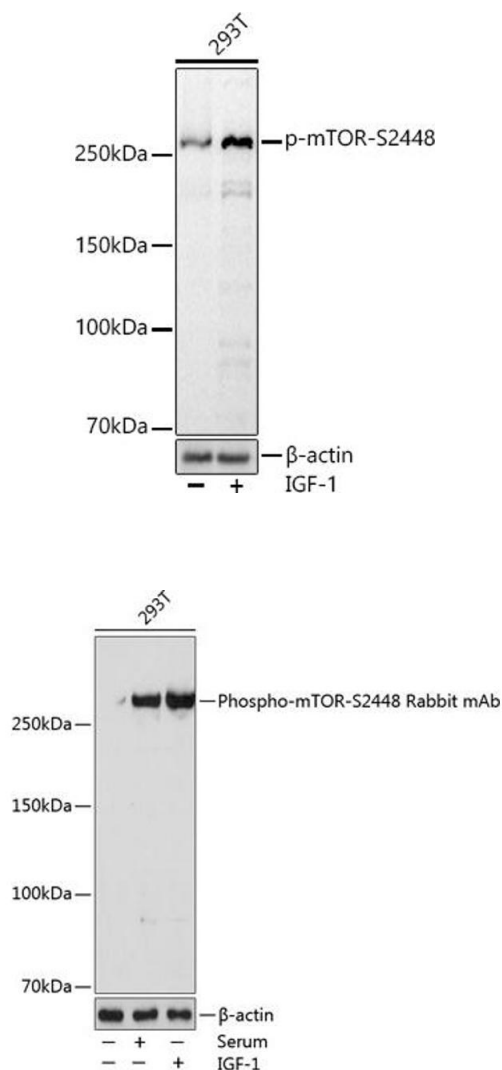
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images

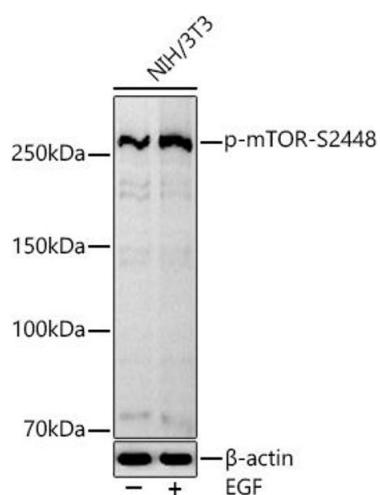


Western Blotting

Image 1. Western blot analysis of extracts of 293T cells, using Phospho-mTOR-S2448 antibody (ABIN7268435) at 1:1000 dilution. 293T cells were treated by IGF-1 (50 ng/mL) at 37 °C for 5 minutes after serum-starvation overnight. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

Western Blotting

Image 2. Western blot analysis of extracts of 293T cells, using Phospho-mTOR-S2448 Rabbit mAb (ABIN7268435) at 1:1000 dilution. 293T cells were treated by 10 % FBS at 37 °C for 30 minutes after serum-starvation overnight or treated by IGF-1 (50 ng/mL) at 37 °C for 5 minutes after serum-starvation overnight. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Western Blotting

Image 3. Western blot analysis of extracts of NIH/3T3 cells, using Phospho-mTOR-S2448 antibody (ABIN7268435) at 1:1000 dilution. NIH/3T3 cells were treated by EGF (100 ng/mL) at 37 °C for 30 minutes after serum-starvation overnight. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.