Datasheet for ABIN7268436

anti-MTOR antibody (pSer2481)

1 Image

Go to Product page

Overview

Quantity:	100 µL
Target:	MTOR (mTOR)
Binding Specificity:	pSer2481
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This MTOR antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Phospho-mTOR-S2481 Rabbit mAb
Immunogen:	A phospho specific peptide corresponding to residues surrounding S2481 of human mTOR
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:	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,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
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

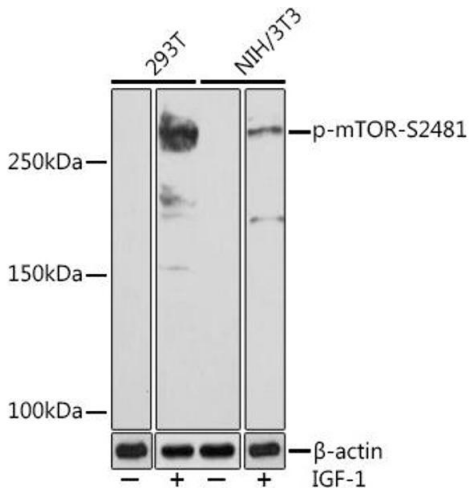
Handling

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 various cell lines, using Phospho-mTOR-S2481 (ABIN7268436) at 1:1000 dilution.Both 293T cells and NIH/3T3 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 % BSA.Detection: ECL Basic Kit (RM00020).Exposure time: 3 min.