

Datasheet for ABIN7449772
anti-MTOR antibody (AA 1350-1400)



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Overview

Quantity:	100 µg
Target:	MTOR (mTOR)
Binding Specificity:	AA 1350-1400
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MTOR antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Purpose:	Rabbit anti-mTOR Antibody, Affinity Purified
Immunogen:	between AA 1350 and 1400
Isotype:	IgG
Predicted Reactivity:	Rat
Purification:	Affinity Purified

Target Details

Target:	MTOR (mTOR)
Alternative Name:	mTOR (mTOR Products)
Background:	Background: Studies of the mammalian target of rapamycin (mTOR) and its homologs

Target Details

demonstrate a role in integrating signals from growth factors, nutrients, stress, and cellular energy levels to control cell growth, translation initiation, ribosome biogenesis, and transcription factor localization. mTOR is the direct target of the cell cycle arresting activity of rapamycin. mTOR interacts with Raptor or Rictor to form the mTORC1 and mTORC2 complexes respectively. The mTORC1 complex also includes mLst8/GbetaL and functions to phosphorylate S6K and 4EBP1. The mTORC2 complex also includes mLst8/GbetaL, mSIN1 and protor-1 and functions to phosphorylate Akt.

Gene ID:	2475
NCBI Accession:	NP_004949
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:	IP: 2 - 10 µg/mg lysate WB: 1:1,000 - 1:5,000
Restrictions:	For Research Use only

Handling

Concentration:	1000 µg/mL
Buffer:	Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09 % Sodium Azide
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:	4 °C
Expiry Date:	12 months