

Datasheet for ABIN1881353
anti-MTOR antibody (pThr2446)



[Go to Product page](#)

1 Image 4 Publications

Overview

Quantity:	400 µL
Target:	MTOR (mTOR)
Binding Specificity:	pThr2446
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MTOR antibody is un-conjugated
Application:	Dot Blot (DB)

Product Details

Immunogen:	This FRAP1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T2446 of human FRAP1.
Clone:	RB13089
Isotype:	IgG
Predicted Reactivity:	M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	MTOR (mTOR)
Alternative Name:	FRAP1 (mTOR Products)

Target Details

Background:	FRAP1 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. FRAP1 is a 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.
Molecular Weight:	288892
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:	DB: 1:500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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,-20 °C
Expiry Date:	6 months

Publications

Product cited in:	Pillai, Sundaresan, Kim, Gupta, Rajamohan, Pillai, Samant, Ravindra, Isbatan, Gupta: "Exogenous
-------------------	---

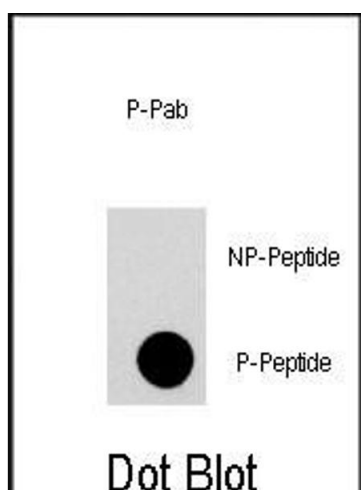
NAD blocks cardiac hypertrophic response via activation of the SIRT3-LKB1-AMP-activated kinase pathway." in: **The Journal of biological chemistry**, Vol. 285, Issue 5, pp. 3133-44, (2010) ([PubMed](#)).

Dowling, Zakikhani, Fantus, Pollak, Sonenberg: "Metformin inhibits mammalian target of rapamycin-dependent translation initiation in breast cancer cells." in: **Cancer research**, Vol. 67, Issue 22, pp. 10804-12, (2007) ([PubMed](#)).

Bai, Ma, Liu, Shen, Wang, Liu, Jiang: "Rheb activates mTOR by antagonizing its endogenous inhibitor, FKBP38." in: **Science (New York, N.Y.)**, Vol. 318, Issue 5852, pp. 977-80, (2007) ([PubMed](#)).

Zhou, Wulfschlegel, Zhang, Gu, Yang, Deng, Margolick, Liotta, Petricoin, Zhang: "Activation of the PTEN/mTOR/STAT3 pathway in breast cancer stem-like cells is required for viability and maintenance." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 104, Issue 41, pp. 16158-63, (2007) ([PubMed](#)).

Images



Dot Blot

Image 1. Dot blot analysis of anti-FRp Phospho-specific Pab (Cat.(ABIN1881353 and ABIN2839704)) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 µg per ml.