Datasheet for ABIN6282465

anti-MTOR antibody (pSer2448)

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Overview

Quantity:	50 µL
Target:	MTOR (mTOR)
Binding Specificity:	AA 2390-2470, pSer2448
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MTOR antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	mTOR is a protein encoded by the MTOR gene which is approximately 288,9 kDa. mTOR is localised to the endoplasmic reticulum membrane and mitochondrion outer membrane. It is involved in RET signalling, regulation of lipid metabolism, mTOR signalling and glioma. This protein falls under the phosphatidylinositol kinase family. It is a central regulator of cellular metabolism, growth and survival in response to hormones, growth factors, nutrients, energy and stress signals. mTOR is expressed in numerous tissues, with highest levels expressed in the testis. Mutations in the MTOR gene may result in Smith-Kingsmore syndrome. STJ90336 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This primary antibody specifically binds to endogenous mTOR protein which only binds about S2448 when S2448 is phosphorylated.
Immunogen:	Synthesized peptide derived from human mTOR around the phosphorylation site of S2448.

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Product Details

Isotype:	IgG
Specificity:	Phospho-mTOR (S2448) Polyclonal Antibody detects endogenous levels of mTOR protein only when phosphorylated at S2448.
Characteristics:	Rabbit polyclonal to Phospho-mTOR (S2448).
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	MTOR (mTOR)
Alternative Name:	mTOR (mTOR Products)
Molecular Weight:	288 kDa
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 IHC 1:100-1:300 IF 1:200-1:1000 ELISA 1:40000
Comment:	Expressed in numerous tissues, with highest levels in testis.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL

Handling

Buffer:	Liquid in PBS containing 50 % glycerol, 0.5 % BSA and 0.02 % 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:	-20 °C
Storage Comment:	Store at -20°C, and avoid repeat freeze-thaw cycles.

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