

Datasheet for ABIN1531910
anti-MTOR antibody (pSer2448)



[Go to Product page](#)

2 Images 1 Publication

Overview

Quantity:	100 µL
Target:	MTOR (mTOR)
Binding Specificity:	AA 2415-2464, pSer2448
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MTOR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	The antiserum was produced against synthesized peptide derived from human mTOR around the phosphorylation site of Ser2448.
Isotype:	IgG
Specificity:	mTOR (Phospho-Ser2448) Antibody detects endogenous levels of mTOR only when phosphorylated at Ser2448. PhosphorylationH:S2448 M:S2448 R:S2448
Purification:	The antibody was purified from rabbit antiserum by affinity-chromatography using phospho peptide. The antibody against non-phospho peptide was removed by chromatography using corresponding non-phospho peptide.
Purity:	> 95 %

Target Details

Target:	MTOR (mTOR)
Alternative Name:	mTOR (mTOR Products)
Background:	Synonyms: FRAP, FRAP1, FRAP2, RAFT1, Rapamycin target protein, kinase mTOR NCBI Gene Symbol: MTOR
Molecular Weight:	288 kDa
Gene ID:	2475
OMIM:	601231
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: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:40000
Comment:	Unigene-Number: Hs.338207 (NCBI Gene Symbol: MTOR)
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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:	Stable at -20°C for at least 1 year.

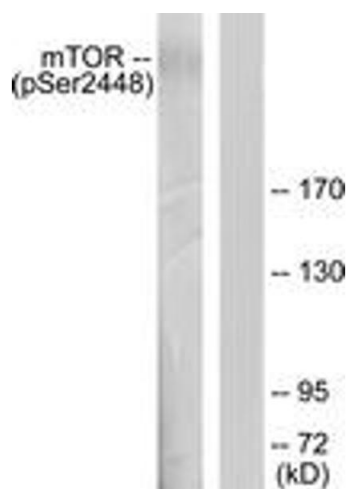
Handling

Expiry Date: 12 months

Publications

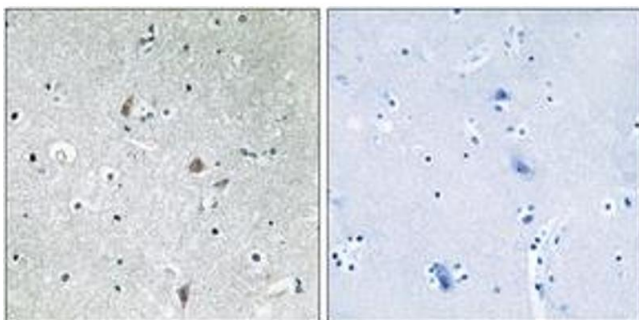
Product cited in: Luo, Yoneda, Ohmori, Sasaki, Shimbo, Eto, Kato, Miyano, Kobayashi, Sasahira, Chihara, Kuniyasu: "Cancer usurps skeletal muscle as an energy repository." in: **Cancer research**, Vol. 74, Issue 1, pp. 330-40, (2014) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of extracts from HeLa cells treated with EGF 200ng/ml 30', using mTOR (Phospho-Ser2448) Antibody. The lane on the right is treated with the synthesized peptide.



Immunohistochemistry

Image 2. Immunohistochemistry analysis of paraffin-embedded human brain, using mTOR (Phospho-Ser2448) Antibody. The picture on the right is treated with the synthesized peptide.