

Datasheet for ABIN319329

anti-MTOR antibody (Ser2448)**3** Images[Go to Product page](#)

Overview

Quantity:	0.1 mL
Target:	MTOR (mTOR)
Binding Specificity:	Ser2448
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MTOR antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	The antiserum was produced against synthesized non-phosphopeptide derived from human mTOR around the phosphorylation site of Serine 2448 (T-D-SP-Y-S).
Specificity:	This antibody AP08060PU detects endogenous levels of total mTOR protein.
Purification:	Immunoaffinity Chromatography using epitope-specific immunogen.

Target Details

Target:	MTOR (mTOR)
Alternative Name:	mTOR / FRAP1 (mTOR Products)
Background:	MTOR, or FKBP12 rapamycin associated protein (FRAP), is one of a family of proteins involved in cell cycle progression, DNA recombination, and DNA damage detection. In rat, it is a 289- kDa

Target Details

protein (symbolized RAFT1) with significant homology to the *Saccharomyces cerevisiae* protein TOR1 and has been shown to associate with the immunophilin FKBP12 in a rapamycin dependent fashion. The FKBP12-rapamycin complex is known to inhibit progression through the G1 cell cycle stage by interfering with mitogenic signaling pathways involved in G1 progression in several cell types, as well as in yeast. The binding of FRAP to FKBP12-rapamycin correlated with the ability of these ligands to inhibit cell cycle progression. Synonyms: FK506-binding protein 12-rapamycin complex-associated protein 1, FKBP12-rapamycin complex-associated protein, FRAP, FRAP2, Mammalian target of rapamycin, RAPT1, Rapamycin target protein, Serine/threonine-protein kinase mTOR, TOR

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: Western blot: 1/500-1/1000. Immunofluorescence: 1/100-1/200. Immunohistochemistry on Paraffin-Embedded Sections: 1/50-1/100.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Buffer: PBS (without Mg²⁺ and Ca²⁺), 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.

Handling Advice: Avoid repeated freezing and thawing.

Handling

Storage:	-20 °C
Storage Comment:	Store the antibody (in aliquots) at-20 °C.

Images

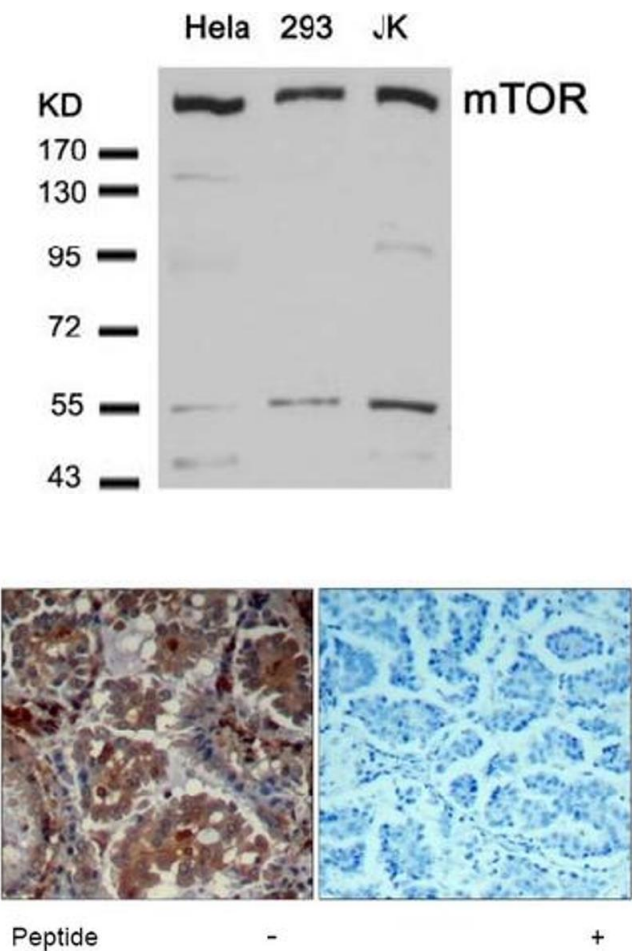


Image 1.

Image 2.

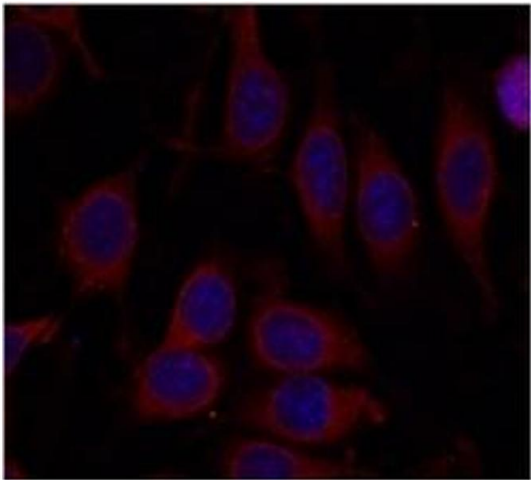


Image 3.