

# mTOR (human FRB Domain) polyclonal antibody

mTOR (FKBP12-rapamycin associated protein (FRAP)) is one of a family of proteins involved in cell cycle progression, DNA recombination, and DNA damage detection. It has been shown to associate with the immunophilin FKBP12 in a rapamycin-dependent fashion. FKBP12-rapamycin-binding (FRB) domain is a conserved 11kDa region necessary for FKBP12-rapamycin binding. FRB is one of several functional domains of mTOR: HEAT (Huntington elongation factor 1A-protein phosphatase 2A-A subunit-TOR); FAT (FRAP, ATM, TTRAP2); PIKK (PI3-kinase-related kinase); RD (regulatory domain); and FATC (FAT, C terminal).

This antibody is covered by our [Worry-Free Guarantee](#).

Citations: 22

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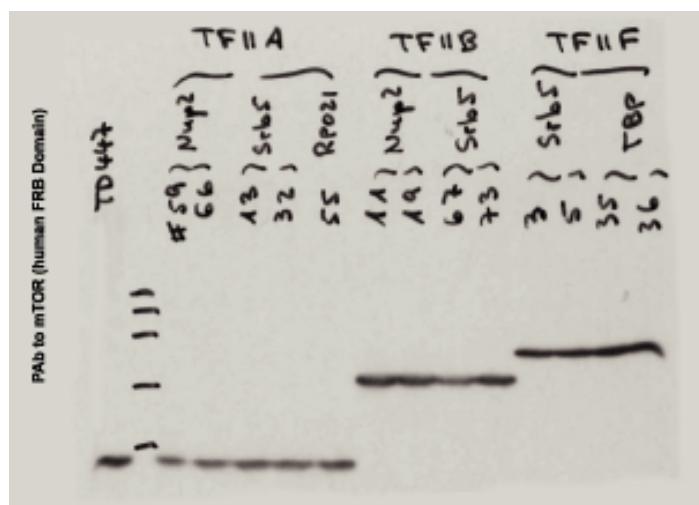
## Ordering Information

ALX-215-065-1

1Vial

## Manuals, SDS & CofA

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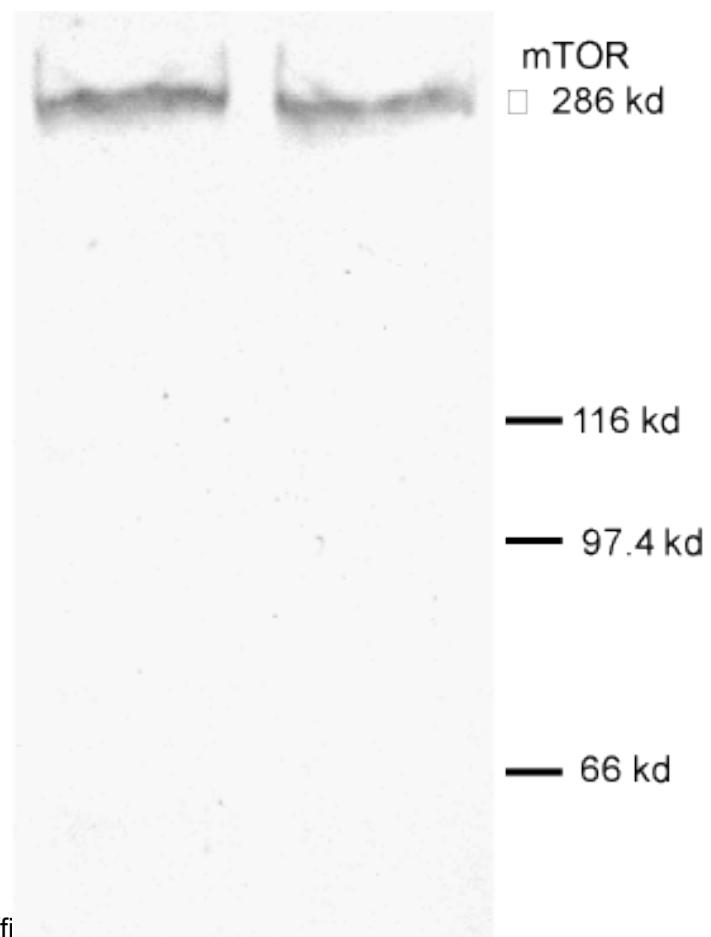


**Figure:** WB using PAb to mTOR (human FRB Domain) (Prod. No. [ALX-215-065](#)) on total yeast extracts derived from cells expressing FRB-tagged genes coding for three different transcription factors. Separation SDS-PAGE."",mTOR (human FRB Domain) polyclonal antibody WB,mTOR (human FRB Domain) polyclonal antibody Western Blot, yes

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065\_2\_WB.gif, <http://static.enzolifesciences.com/fileadmin/fi>

065\_2\_WB.gif, **Figure 2:** Western Blot of mTOR (human FRB Domain)



**Figure 2:** Western Blot of mTOR (human FRB Domain), pAb (Prod. No. ALX-215-065) with Hela cells.

**Method:** Two ml of an exponential HeLa suspension culture (2-4×10<sup>5</sup> cells) was washed twice with PBS quickly without resuspension of the pellet by spinning in a Eppendorf tube and finally with 25% TCA. TCA was carefully removed and pellet resuspended 100µl FSB + βME (final sample buffer) and the pH adjusted with about a few µl of 1M Tris base (≈10 µl). The sample was heated at 100°C for 5 min. and sonicated. SDS PAGE was at 7.5%, 20 & 25 µl loaded in lane 1 and 2, respectively. The TCA step is performed to prevent proteolytic breakdown of the very large mTOR.

# Handling & Storage

**Long Term Storage** -20°C

**Shipping** Blue Ice

## Regulatory Status

RUO - Research Use Only

## Product Details

<b>Alternative Name</b>	mTOR (human FKBP12-rapamycin-binding domain)
<b>Application</b>	ChIP, ICC, WB
<b>Application Notes</b>	Among other applications this antibody can be used to control FRB-tagging of genes and the level of expression thereof in yeast cells (see H. Haruki, et al. 2008).
<b>Formulation</b>	Lyophilized from neat serum containing sodium azide.
<b>Host</b>	Rabbit
<b>Immunogen</b>	Recombinant human mTOR (FKBP12-rapamycin-binding (FRB) domain).
<b>Recommendation Dilutions/Conditions</b>	Western Blot (1:2,000)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application.
<b>Reconstitution</b>	Reconstitute with 50µl water.
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Recognizes the FRB domain of fusion proteins expressed in <i>Saccharomyces cerevisiae</i> (see H. Haruki, et al. 2008) and the human FRB domain of mTOR.
<b>UniProt ID</b>	P42345

### Worry-free Guarantee

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