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 View Online »

Ordering Information

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ALX-215-065-1	1Vial

Manuals, SDS & CofA

View Online »

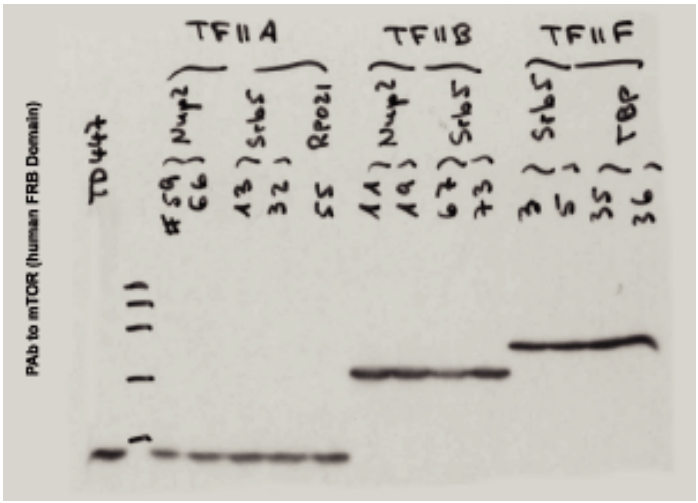


Figure: WB using PAb to mTOR (human FRB Domain) (Prod. No. ALX-215-065) on total yeast extracts derived from cells expressing FRB-tagged genes coding for three different transcription factors. Separation SDS-PAGE.””””,mTOR (human FRB Domain) polyclonal antibody WB,mTOR (human FRB Domain) polyclonal antibody Western Blot,yes ALX-215-065,215-065_2_WB.gif,http://static.enzolifesciences.com/fileadmin/fi 065_2_WB.gif,**Figure 2:** Western Blot of mTOR (human FRB Domain)

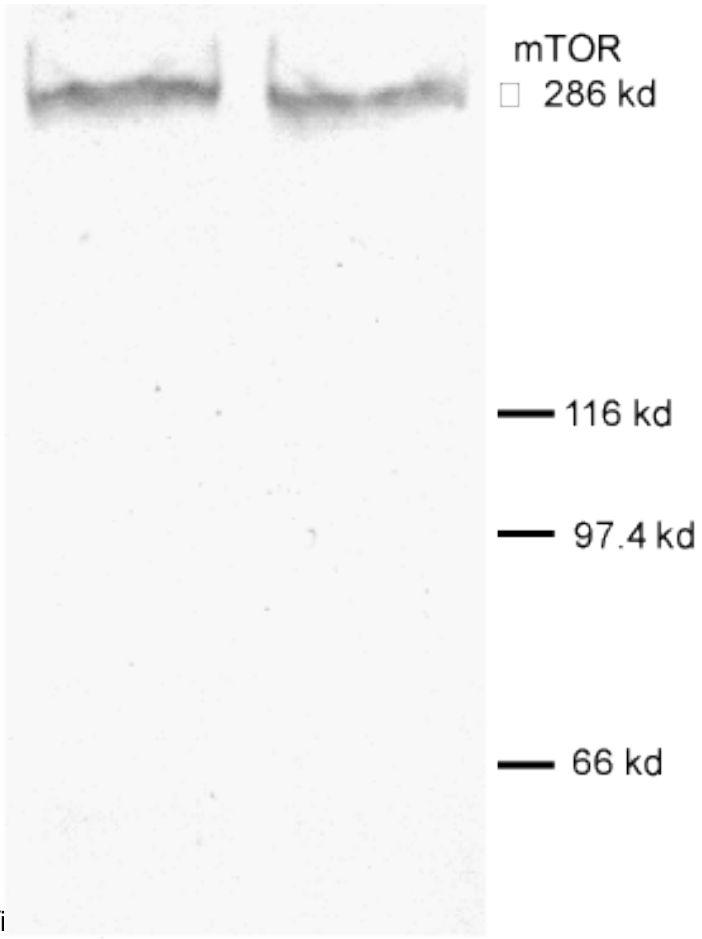


Figure 2: Western Blot of mTOR (human FRB Domain), pAb (Prod. No. ALX-215-065) with Hela cells.
Method: Two ml of an exponential HeLa suspension culture (2-4×105 cells) was washed twice with PBS quickly without resuspention of the pellet by spinning in a Eppendorf tube and finally with 25% TCA. TCA was carefully removed and pellet respuspended 100µl FSB + ßME (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

Alternative Name mTOR (human FKBP12-rapamycin-binding domain)

Application ChIP, ICC, WB

Application Notes 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).

Formulation Lyophilized from neat serum containing sodium azide.

Host Rabbit

Immunogen Recombinant human mTOR (FKBP12-rapamycin-binding (FRB) domain).

Recommendation Dilutions/Conditions Western Blot (1:2,000)Suggested dilutions/conditions may not be available for all applications.Optimal conditions must be determined individually for each application.

Reconstitution Reconstitute with 50µl water.

Species Reactivity Human

Specificity Recognizes the FRB domain of fusion proteins expressed in *Saccharomyces cerevisiae* (see H. Haruki, et al. 2008) and the human FRB domain of mTOR.

UniProt ID P42345

Worry-free Guarantee **This antibody is covered by our Worry-Free Guarantee**

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