

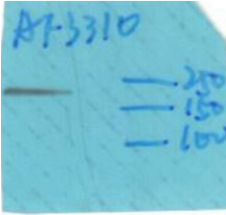
Phospho-mTOR (Thr2446) Ab

Cat.#: AF3310
Size: 100ul,200ul

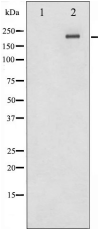
Concn.: 1mg/ml
Source: Rabbit

Mol.Wt.: 220kDa
Clonality: Polyclonal

Application:	WB 1:500-1:2000
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-mTOR (Thr2446) Ab detects endogenous levels of mTOR only when phosphorylated at Threonine 2446.
Immunogen:	A synthesized peptide derived from human mTOR around the phosphorylation site of Threonine 2446.
Uniprot:	P42345
Description:	an atypical kinase belonging to the PIKK family of kinases. Controls cell growth through protein synthesis regulation. Downstream of PI3K/Akt pathway and required for cell survival. Acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex.
Subcellular Location:	Endoplasmic reticulum membrane. Golgi apparatus membrane. Mitochondrion outer membrane. Lysosome. Cytoplasm. Nucleus > PML body. Shuttles between cytoplasm and nucleus. Accumulates in the nucleus in response to hypoxia (By similarity). Targeting to lysosomes depends on amino acid availability and RRAGA and RRAGB.
Tissue Specificity:	Expressed in numerous tissues, with highest levels in testis.
Similarity:	The kinase domain (PI3K/PI4K) is intrinsically active but has a highly restricted catalytic center.The FAT domain forms three discontinuous subdomains of alpha-helical TPR repeats plus a single subdomain of HEAT repeats. The four domains pack sequentially to form a C-shaped a-solenoid that clamps onto the kinase domain (PubMed:23636326).Belongs to the PI3/PI4-kinase family.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis of Phospho-mTOR (Thr2446) Ab expression in Insulin treated NIH-3T3 cells lysates. The lane on the right is treated with the antigen-specific peptide.



Western blot analysis of mTOR phosphorylation expression in Insulin treated NIH-3T3 whole cell lysates. The lane on the left is treated with the antigen-specific peptide.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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