

mTOR (phospho-S2448) polyclonal antibody

Catalog: BS4706

Host: Rabbit

Reactivity: Human, Mouse, Rat

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 245-kDa 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.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

Molecular Weight:

~ 289 kDa

Swiss-Prot:

P42345

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

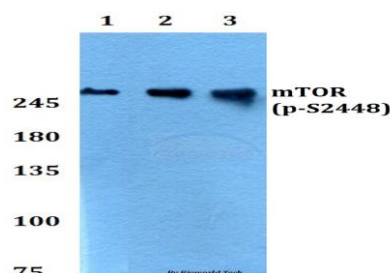
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

p-mTOR (S2448) polyclonal antibody detects endogenous levels of mTOR protein when phosphorylated at Ser2448.

DATA:

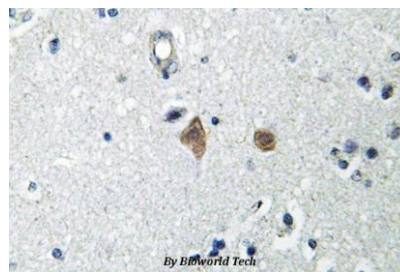


Western blot (WB) analysis of p-mTOR (S2448) polyclonal antibody at 1:500 dilution

Lane1: HEK293T cell lysate treated with insulin (100nM, 30mins)

Lane2: Raw264.7 cell lysate treated with insulin (100nM, 30mins)

Lane3: PC12 cell lysate treated with insulin (100nM, 30mins)



Immunohistochemistry (IHC) analysis of p-mTOR (S2448) pAb in paraffin-embedded human brain tissue.

Note:

For research use only, not for use in diagnostic procedure.

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