Phospho-mTOR-S2448 pAb

**Catalog No.** AP0094

**Applications** WB, IF

**Cross-reactivity** Human, Mouse, Rat

**Category** Phosphorylated Antibodies

**Observed MW** 289kDa

**Calculated MW** 288kDa

**Immunogen**
A synthetic phosphorylated peptide around S2448 of human mTOR (NP_004949.1).

**Gene ID** 2475

**Swiss prot** P42345

**Synonyms** MTOR; FRAP; FRAP1; FRAP2; RAFT1; RAPT1; SKS; mechanistic target of rapamycin

**Product information**

- **Source** Rabbit
- **Isotype** IgG
- **Purification method** Affinity purification
- **Storage** Store at -20°C. Avoid freeze / thaw cycles.
  Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Recommended Dilutions**

- **WB** 1:500 - 1:2000
- **IF** 1:50 - 1:200

**Background**

The protein encoded by this gene belongs to a family of phosphatidylinositol kinase-related kinases. These kinases mediate cellular responses to stresses such as DNA damage and nutrient deprivation. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. The ANGPTL7 gene is located in an intron of this gene.

Western blot analysis of extracts of NIH/3T3 and C6 cells, using Phospho-mTOR-S2448 antibody (AP0094) at 1:2000 dilution. NIH/3T3 cells were treated by Insulin (100nM) for 10 minutes after serum-starvation overnight. C6 cells were treated by IGF-1 (50 ng/ml) for 30 minutes after serum-starvation overnight.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% BSA.

Detection: ECL Basic Kit (RM00020).

Exposure time: 30S.

Immunofluorescence analysis of HeLa cells using Phospho-mTOR-S2448 antibody (AP0094) at dilution of 1:100. Blue: DAPI for nuclear staining.