

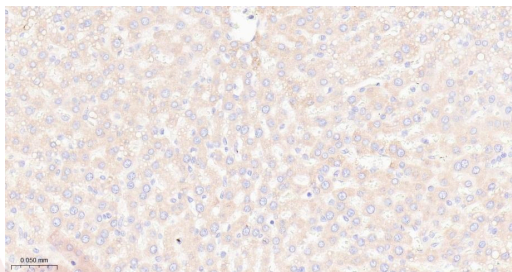
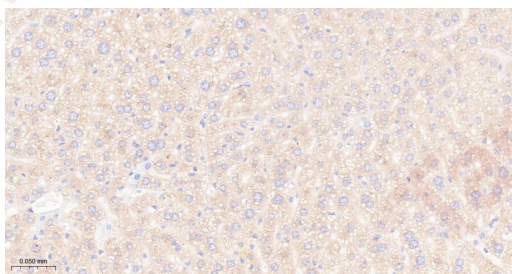
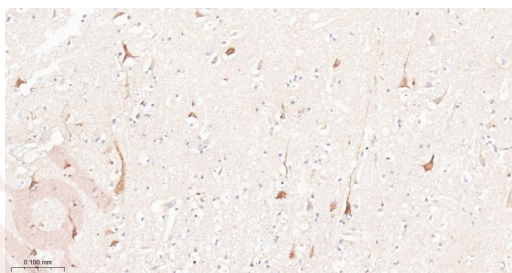
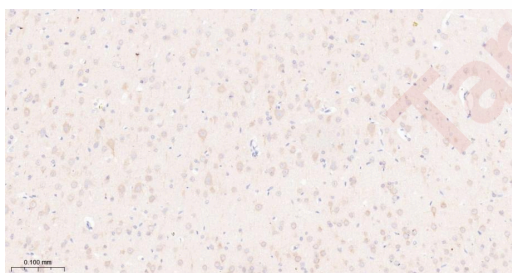
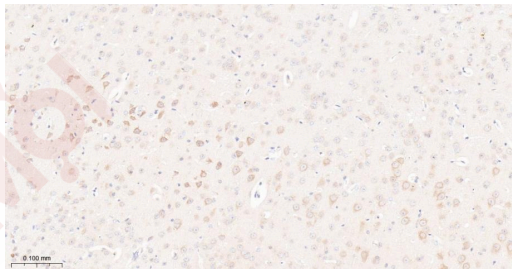
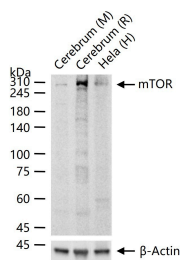
## Anti-mTOR Antibody (2K378)

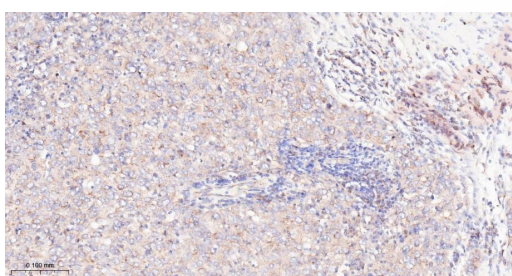
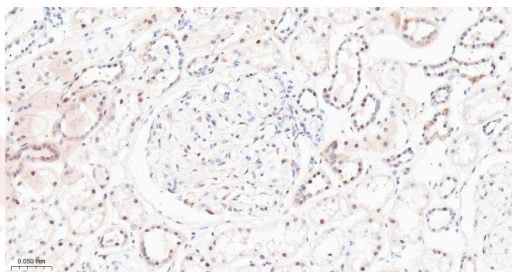
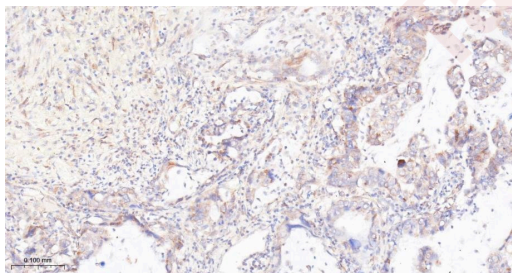
### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 289 kDa. Actual: 300 kDa.
Clone:	2K378
Purification:	Protein A purified

### Applications

1. 25 µg total protein per Lane of various lysates probed with mTOR monoclonal antibody, unconjugated (TMAB-01180) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.
2. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with mTOR Monoclonal Antibody, Unconjugated (TMAB-01180) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with mTOR Monoclonal Antibody, Unconjugated (TMAB-01180) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded Human Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with mTOR Monoclonal Antibody, Unconjugated (TMAB-01180) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with mTOR Monoclonal Antibody, Unconjugated (TMAB-01180) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
6. Paraformaldehyde-fixed, paraffin embedded Rat Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with mTOR Monoclonal Antibody, Unconjugated (TMAB-01180) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
7. Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with mTOR Monoclonal Antibody, Unconjugated (TMAB-01180) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
8. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with mTOR Monoclonal Antibody, Unconjugated (TMAB-01180) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
9. Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with mTOR Monoclonal Antibody, Unconjugated (TMAB-01180) at 1:200 overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
- Verified Activity:





Application: IF,IHC-Fr,IHC-P,IP,WB

Recommended WB: 1:500-2000; IP: 1:20-50; IHC-P: 1:50-200; IHC-Fr: 1:50-200; IF: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: A synthesized peptide: human mTOR

Antigen Species: Human

Gene ID: 2475

Uniprot ID: P42345

Synonyms: MTOR;Mammalian target of rapamycin (mTOR);FRAP2;Rapamycin target protein 1;FK506-binding protein 12-rapamycin complex-associated protein 1;FRAP;FRAP1;RAPT1;Rapamycin and FKBP12 target 1;Tyrosine-protein kinase mTOR;FKBP12-rapamycin complex-associated protein;Serine/threonine-protein kinase mTOR;RAFT1;Mechanistic target of rapamycin

Biology Area: Cell cycle inhibitors,Transcription factors/regulators,Cell Cycle Inhibitors,DNA Damage Recognition,Growth factors and hormones ELISA kits,Obesity

### Research Background

mTOR is one of a family of proteins involved in cell cycle progression, DNA recombination, and DNA damage detection. In rat, it is a 289-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.

## A DRUG SCREENING EXPERT

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The binding of FRAP to FKBP12-rapamycin correlated with the ability of these ligands to inhibit cell cycle progression.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481