

# Product datasheet for AP20896PU-N

### MTOR pSer2448 Rabbit Polyclonal Antibody

### **Product data:**

#### OriGene Technologies, Inc.

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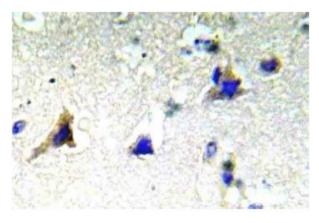
Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on paraffin sections: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of mTOR protein only when phosphorylated at Ser2448.
Formulation:	PBS, pH 7.2 State: Aff - Purified State: Liquid purfied Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 289 kDa
Gene Name:	mechanistic target of rapamycin
Database Link:	<u>Entrez Gene 56717 MouseEntrez Gene 56718 RatEntrez Gene 2475 Human</u> <u>P42345</u>



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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.
Synonyms:	Mammalian target of rapamycin, TOR, FRAP, FRAP2, RAPT1
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathway	<b>s:</b> Acute myeloid leukemia, Adipocytokine signaling pathway, ErbB signaling pathway, Glioma, Insulin signaling pathway, mTOR signaling pathway, Pathways in cancer, Prostate cancer, Type II diabetes mellitus

## **Product images:**



Immunohistochemistry (IHC) analyzes of p-mTOR antibody (Cat.-No.: AP20896PU-N) in paraffinembedded human brain tissue.

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