

## Product datasheet for **AP08060PU-N**

### MTOR Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/100-1/200. Immunohistochemistry on Paraffin-Embedded Sections: 1/50-1/100.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized non-phosphopeptide derived from human mTOR around the phosphorylation site of Serine 2448 (T-D-SP-Y-S).
Specificity:	This antibody AP08060PU detects endogenous levels of total mTOR protein.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	mechanistic target of rapamycin
Database Link:	<a href="#">Entrez Gene 2475 Human P42345</a>



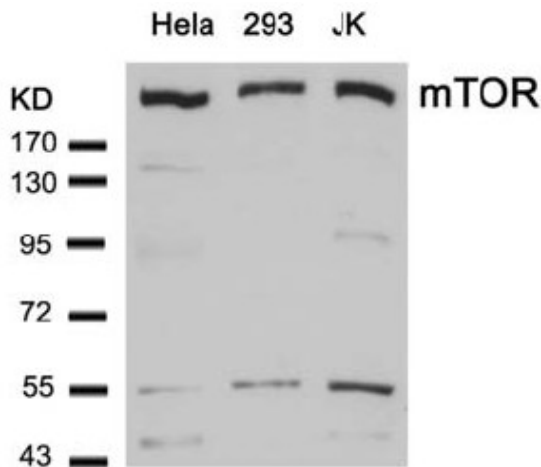
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**Background:**

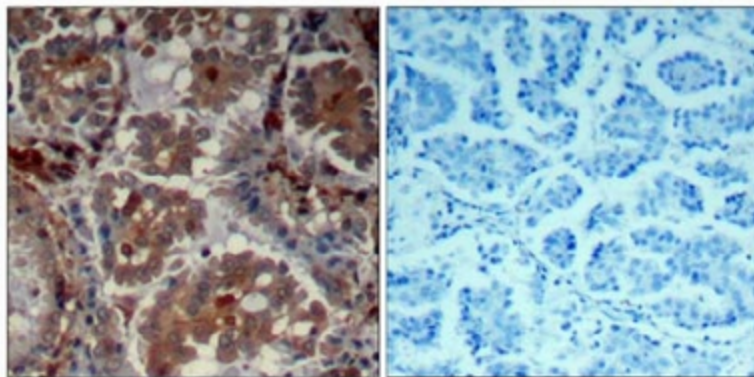
mTOR, or FKBP12 rapamycin associated protein (FRAP), is one of a family of proteins involved in cell cycle progression, DNA recombination, and DNA damage detection. In rat, it is a 289-kDa protein (symbolized RAFT1) with significant homology to the *Saccharomyces cerevisiae* protein TOR1 and has been 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. The binding of FRAP to FKBP12-rapamycin correlated with the ability of these ligands to inhibit cell cycle progression.

**Synonyms:**

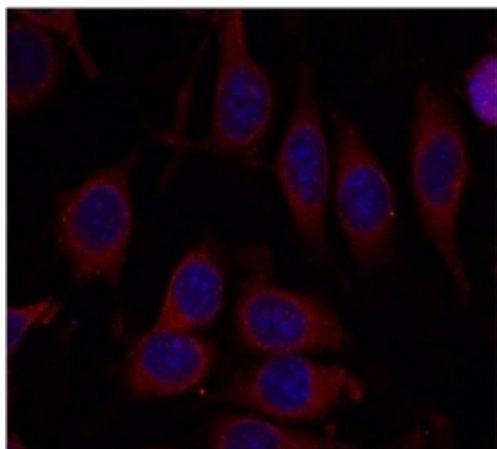
Mammalian target of rapamycin, TOR, FRAP, FRAP2, RAPT1

**Product images:**


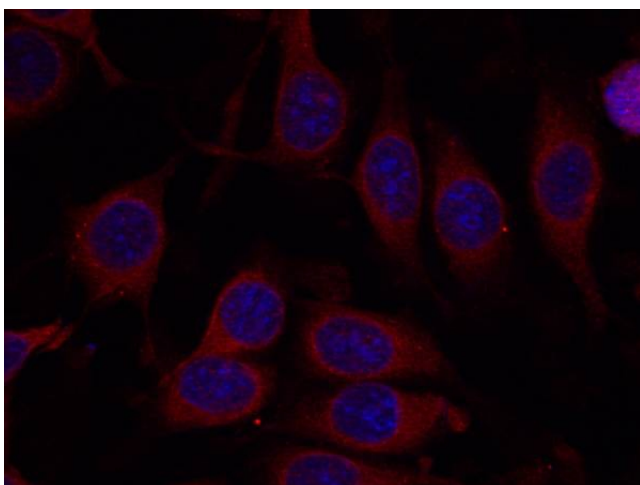
Western Blot analysis of extracts from HeLa, 293 and JK cells using mTOR antibody



Immunohistochemical analysis of paraffin-embedded human Lung carcinoma tissue using mTOR Antibody.



Immunofluorescence staining of methanol-fixed MCF7 cells using PAK1 antibody (Red).



Immunofluorescence staining of methanol-fixed MCF7 cells using mTOR Antibody.