

# Anti-mTOR Antibody

## R1510-21



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	IF-Cell, IHC-P
<b>Molecular Wt:</b>	289 kDa

**Description:** The mechanistic target of rapamycin (mTOR), also known as the mammalian target of rapamycin and FK506-binding protein 12-rapamycin-associated protein 1 (FRAP1), is a kinase that in humans is encoded by the MTOR gene. mTOR is a member of the phosphatidylinositol 3-kinase-related kinase family of protein kinases. mTOR links with other proteins and serves as a core component of two distinct protein complexes, mTOR complex 1 and mTOR complex 2, which regulate different cellular processes. In particular, as a core component of both complexes, mTOR functions as a serine/threonine protein kinase that regulates cell growth, cell proliferation, cell motility, cell survival, protein synthesis, autophagy, and transcription. As a core component of mTORC2, mTOR also functions as a tyrosine protein kinase that promotes the activation of insulin receptors and insulin-like growth factor 1 receptors. mTORC2 has also been implicated in the control and maintenance of the actin cytoskeleton.

**Immunogen:** Synthetic peptide within human MTOR aa 2255-2341.

**Positive control:** MCF-7, HepG2, rat testis tissue, rat brain tissue, mouse testis tissue, mouse brain tissue.

**Subcellular location:** Endoplasmic reticulum, mitochondrion, nucleus.

**Database links:** SwissProt: P42345 Human

**Recommended Dilutions:**

<b>IF-Cell</b>	1:50-1:200
<b>IHC-P</b>	1:50-1:200
<b>WB</b>	1:200-1:500

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Immunogen affinity purified.

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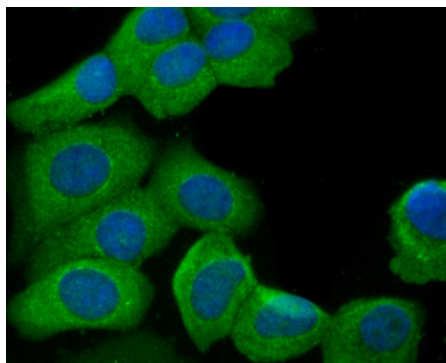
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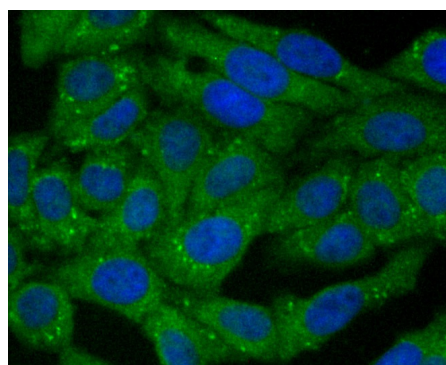
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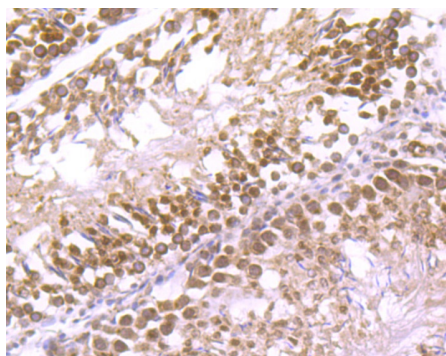
## Images



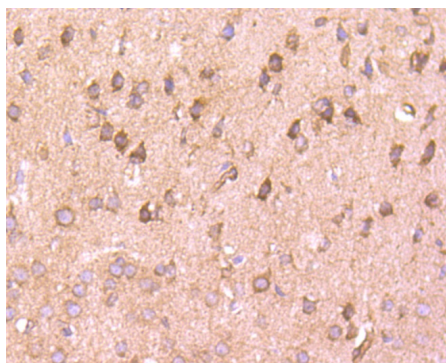
**Fig1:** ICC staining MTOR in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig2:** ICC staining MTOR in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



**Fig3:** Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-MTOR antibody. Counter stained with hematoxylin.



**Fig4:** Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-MTOR antibody. Counter stained with hematoxylin.

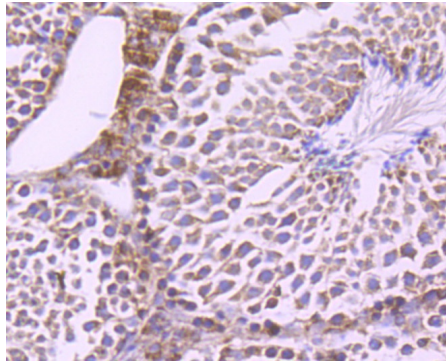
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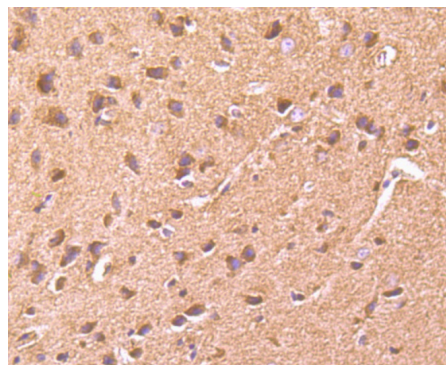
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**Fig5:** Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-MTOR antibody. Counter stained with hematoxylin.



**Fig6:** Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-MTOR antibody. Counter stained with hematoxylin.

**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

### Background References

1. Zhang Y et al. Effect of Tetramethylpyrazine on Atherosclerosis and SCAP/SREBP-1c Signaling Pathway in ApoE(-/-) Mice Fed with a High-Fat Diet. *Evid Based Complement Alternat Med* 2017:3121989 (2017).
2. Huang G et al. Notoginsenoside R1 attenuates glucose-induced podocyte injury via the inhibition of apoptosis and the activation of autophagy through the PI3K/Akt/mTOR signaling pathway. *Int J Mol Med* 39:559-568 (2017).

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