

## Basic Information

<b>Product Name</b>	Anti-mTOR Antibody	
<b>Gene Name</b>	MTOR	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, monkey	
<b>Tested Application</b>	WB, IHC, ELISA	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	E.coli-derived human mTOR/MTOR recombinant protein (Position: N2093-N2537).	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	289 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-400
	ELISA:	1:100-1000
	(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied.

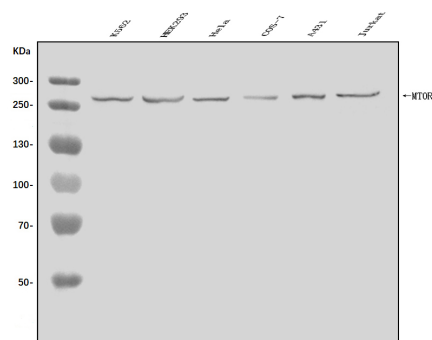
## Background Information

The mammalian target of rapamycin (mTOR), also known as the mechanistic 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. 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.

## Reference

Anti-mTOR Antibody被引用在5文献中。

## Selected Validation Data



Western blot analysis of mTOR using anti-mTOR antibody

(A00003-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human K562 whole cell lysates,

Lane 2: human HEK293 whole cell lysates,

Lane 3: human HELA whole cell lysates,

Lane 4: monkey COS-7 whole cell lysates,

Lane 5: human A431 whole cell lysates,

Lane 6: human Jurkat whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-mTOR antigen

affinity purified polyclonal antibody (A00003-2) at a dilution of

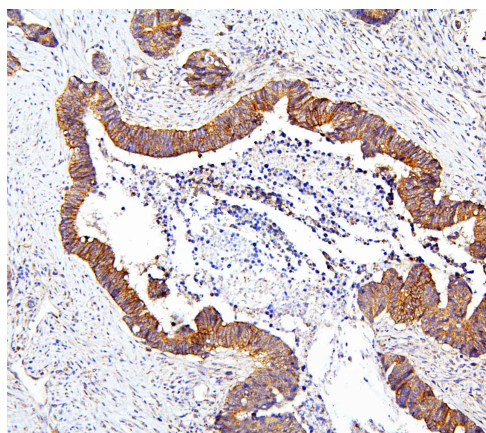
1:1000 and probed with a goat anti-rabbit IgG-HRP secondary

antibody (Catalog # BA1054). The signal is developed using ECL Plus

Western Blotting Substrate (Catalog # AR1197). A specific band was

detected for mTOR at approximately 289 kDa. The expected band

size for mTOR is at 289 kDa.



IHC analysis of mTOR using anti-mTOR antibody (A00003-2).

mTOR was detected in a paraffin-embedded section of human colon

cancer tissue. Biotinylated goat anti-rabbit IgG was used as

secondary antibody. The tissue section was incubated with rabbit

anti-mTOR Antibody (A00003-2) at a dilution of 1:200 and developed

using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with

DAB (Catalog # AR1027) as the chromogen.