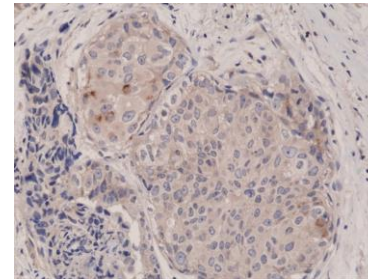


## Anti-mTOR Rabbit Monoclonal Antibody

<b>CATALOG NO:</b>	A1595-50
<b>ALTERNATIVE NAMES:</b>	Serine/threonine-protein kinase mTOR, FK506-binding protein 12-rapamycin complex-associated protein 1, FKBP12-rapamycin complex-associated protein, Mammalian target of rapamycin, FRAP, FRAP1, FRAP2, RAFT1, RAPT1
<b>AMOUNT:</b>	50 µl
<b>CLONE:</b>	RM190
<b>IMMUNOGEN:</b>	A peptide corresponding to human serine/threonine-protein kinase mTOR
<b>HOST/ISOTYPE:</b>	Rabbit IgG
<b>SPECIES REACTIVITY:</b>	Human
<b>PURIFICATION:</b>	Protein A affinity purified from an animal origin-free culture supernatant
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
<b>SPECIFICITY:</b>	This antibody reacts to human serine/threonine-protein kinase mTOR.
<b>STORAGE CONDITIONS:</b>	For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles
<b>DESCRIPTION:</b>	The mammalian target of rapamycin (mTOR, FRAP, RAFT) is a Ser/Thr protein kinase that functions as an ATP and amino acid sensor to balance nutrient availability and cell growth. When sufficient nutrients are available, mTOR responds to a phosphatidic acid-mediated signal to transmit a positive signal to p70 S6 kinase and participate in the inactivation of the eIF4E inhibitor, 4E-BP1. These events result in the translation of specific mRNA subpopulations. mTOR is phosphorylated at Ser2448 via the PI3 kinase/Akt signaling pathway and autophosphorylated at Ser2481. mTOR plays a key role in cell growth and homeostasis and may be abnormally regulated in tumors. For these reasons, mTOR is currently under investigation as a potential target for anti-cancer therapy.
<b>APPLICATION:</b>	Western Blot: 1:1000-1:2000 IHC: 1:500-1:1000 <b>Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.</b>



Immunohistochemical staining of formalin fixed and paraffin embedded human breast cancer tissue sections using Anti-mTOR Rabbit Monoclonal Antibody (Clone RM274) at a 1:1000 dilution.



Western Blot of HeLa cells lysates using Anti-mTOR Rabbit Monoclonal Antibody (Clone RM274) at a 1:1500 dilution.

### RELATED PRODUCTS:

- mTOR Antibody (**Cat. No. 3786**)
- mTOR Inhibitor, WYE-23 (**Cat. No. 2257**)
- mTOR Inhibitor, WYE-28 (**Cat. No. 2255**)
- mTOR Inhibitor, WYE-132 (**Cat. No. 2256**)
- mTOR (Human) ELISA Kit (**Cat. No. K4179**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**