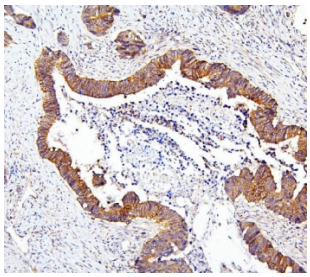
mTOR Antibody (RQ5343)

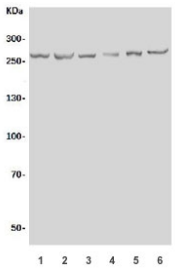
Catalog No.	Formulation	Size
RQ5343	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Monkey
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P42345
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This mTOR antibody is available for research use only.



IHC staining of FFPE human colon carcinoma with mTOR antibody. HIER: boil tissue sections in pH6 citrate buffer for 20 min and allow to cool before testing.



Western blot testing of 1) human K562, 2) human HEK293, 3) human HeLa, 4) monkey COS-7, 5) human A431 and 6) human Jurkat lysate with mTOR antibody. Predicted molecular weight ~280 kDa, also observed at ~220 kDa.

Description

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.

Application Notes

Optimal dilution of the mTOR antibody should be determined by the researcher.

Immunogen

Amino acids N2093-N2537 from the human protein were used as the immunogen for the mTOR antibody.

Storage

Store the mTOR antibody at -20oC.

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