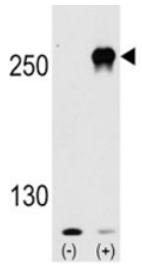
mTOR Antibody (FRAP1) (F49548)

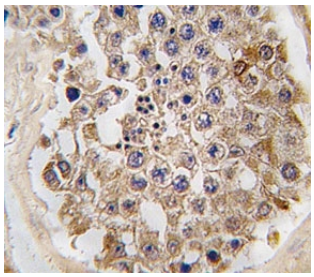
Catalog No.	Formulation	Size
F49548-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F49548-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

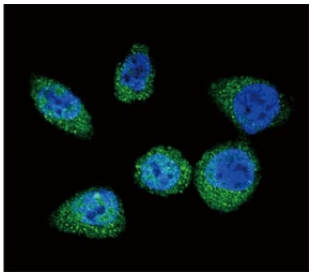
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P42345
Applications	Western blot: 1:1000 IHC (Paraffin): 1:10-1:50 Immunofluorescence: 1:10-1:50
Limitations	This mTOR antibody is available for research use only.



Western blot analysis of mTOR antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the mTOR gene (2).



IHC analysis of FFPE human testis tissue stained with mTOR antibody



Confocal immunofluorescent analysis of mTOR antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).

Description

FRAP1/mTOR 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. It is a part of the TORC2 complex which plays a critical role in AKT1 Ser-473 phosphorylation, and may modulate the phosphorylation of PKCA and regulate actin cytoskeleton organization.

Application Notes

Titration of the mTOR antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 2459-2488 from the human protein was used as the immunogen for this mTOR antibody.

Storage

Aliquot the mTOR antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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