

mTOR Polyclonal Antibody

Catalog No.	A2445	Category	Polyclonal Antibodies
Applications	WB, IF, IP	Observed MW	289kDa
Cross-reactivity	Human, Mouse, Rat	Calculated MW	288kDa

Immunogen Information

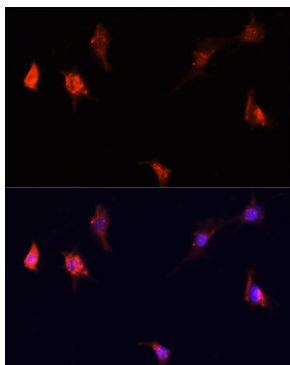
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-300 of human mTOR (NP_004949.1).
Gene ID	2475
Swiss prot	P42345
Synonyms	MTOR; FRAP; FRAP1; FRAP2; RAFT1; RAPT1; SKS; m echanistic target of rapamycin

Product information

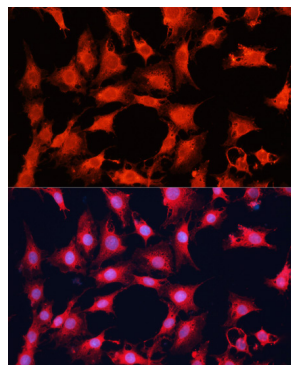
Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Background

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.



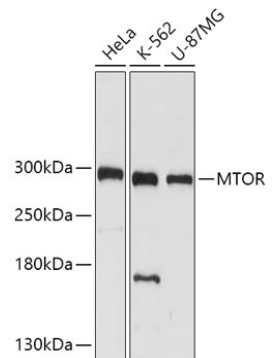
Immunofluorescence analysis of PC12 cells using mTOR antibody (A2445) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of C6 cells using MTOR antibody (A2445) at dilution of 1:100. Blue: DAPI for nuclear staining.

Recommended Dilutions

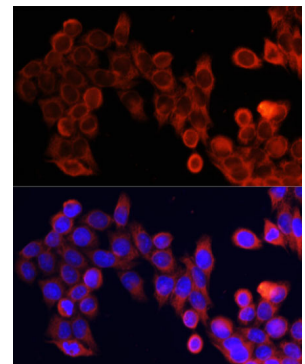
WB	1:500 - 1:2000
IF	1:50 - 1:200
IP	1:50 - 1:100



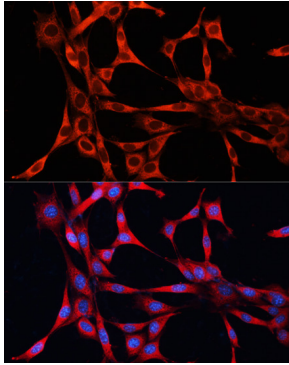
Western blot analysis of extracts of various cell lines, using mTOR antibody (A2445) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

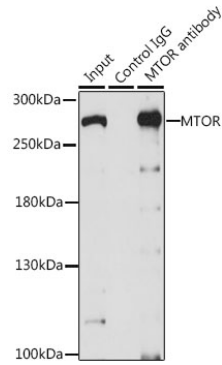
Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunofluorescence analysis of HeLa cells using mTOR antibody (A2445) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using MTOR antibody (A2445) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 200ug extracts of HeLa cells, using 3 ug mTOR antibody (A2445). Western blot was performed from the immunoprecipitate using mTOR antibody (A2445) at a dilution of 1:1000.