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Product datasheet for TA302216

MTOR Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:1000, IHC: 1:10~50, IF: 1:10~50
Reactivity:	Human (Predicted: Mouse, Rat)
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This mTOR (FRAP1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2459-2488 amino acids from human mTOR (FRAP1).
Formulation:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	288762 Da
Gene Name:	mechanistic target of rapamycin
Database Link:	NP_004949 Entrez Gene 56717 MouseEntrez Gene 56718 RatEntrez Gene 2475 Human P42345
Background:	FRAP1 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. FRAP1 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.
Synonyms:	FRAP; FRAP1; FRAP2; RAFT1; RAPT1; SKS
Protein Families:	Druggable Genome, Protein Kinase

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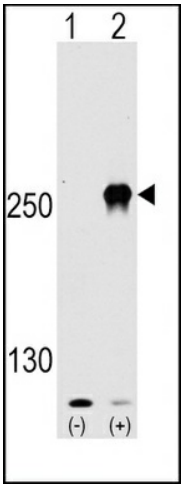
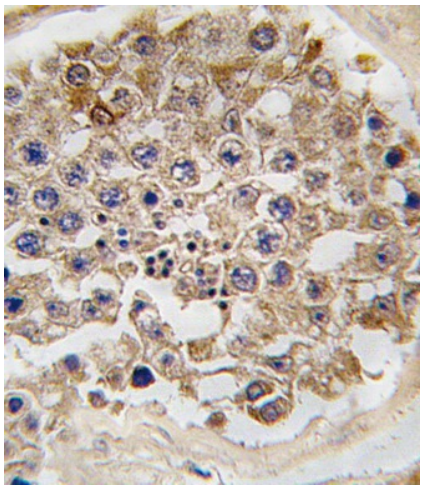
Protein Pathways: Acute myeloid leukemia, Adipocytokine signaling pathway, ErbB signaling pathway, Glioma, Insulin signaling pathway, mTOR signaling pathway, Pathways in cancer, Prostate cancer, Type II diabetes mellitus

Product images:



Western blot analysis of FRAP1 (arrow) using rabbit polyclonal FRAP1 Antibody (S2481) (Cat.#TA302216). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the FRAP1 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human testis tissue reacted with FRAP1-pS2481, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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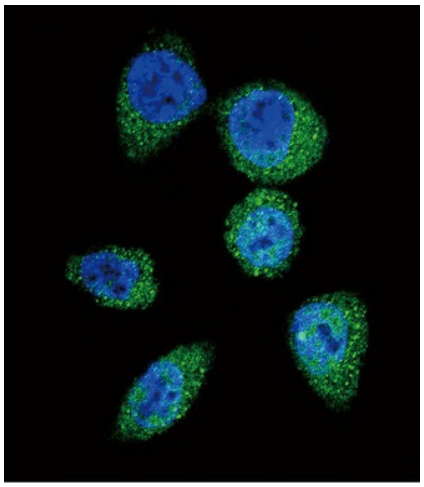

Confocal immunofluorescent analysis of mTOR (FRAP1) Antibody (S2481) (Cat#TA302216) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).

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