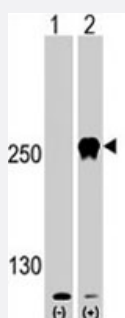


MTOR polyclonal antibody

Catalog # PAB1988

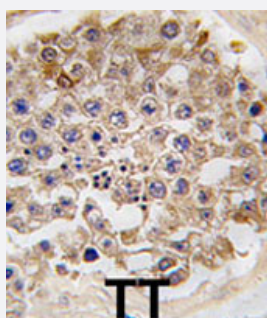
Size 400 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of MTOR (arrow) using rabbit polyclonal MTOR polyclonal antibody (Cat # PAB1988). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MTOR gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human testis tissue reacted with MTOR polyclonal antibody (Cat # PAB1988) , 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.

Specification

| | |
|----------------------------|--|
| Product Description | Rabbit polyclonal antibody raised against synthetic peptide of FRAP1. |
| Immunogen | A synthetic peptide (conjugated with KLH) corresponding to residues surrounding S2481 of human F RAP1. |
| Host | Rabbit |
| Reactivity | Human |
| Form | Liquid |
| Purification | Protein A purification |

| | |
|----------------------------|---|
| Recommend Usage | Western Blot (1:1000) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In PBS (0.09% sodium azide) |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing. |
| Note | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Applications

- Western Blot (Transfected lysate)

Western blot analysis of MTOR (arrow) using rabbit polyclonal MTOR polyclonal antibody (Cat # PAB1988). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MTOR gene (Lane 2) (Origene Technologies).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human testis tissue reacted with MTOR polyclonal antibody (Cat # PAB1988), 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.

Gene Info — MTOR

| | |
|---------------------------|---|
| Entrez GeneID | 2475 |
| Protein Accession# | NP_004949;P42345 |
| Gene Name | MTOR |
| Gene Alias | FRAP, FRAP1, FRAP2, RAFT1, RAPT1 |
| Gene Description | mechanistic target of rapamycin |
| Omim ID | 601231 |
| Gene Ontology | Hyperlink |
| Gene Summary | 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. [provided by RefSeq] |

Other Designations

FK506 binding protein 12-rapamycin associated protein 1|FK506 binding protein 12-rapamycin associated protein 2|FK506-binding protein 12-rapamycin complex-associated protein 1|FKBP-rapamycin associated protein|FKBP12-rapamycin complex-associated protein 1

Publication Reference

- [Metformin inhibits mammalian target of rapamycin-dependent translation initiation in breast cancer cells.](#)
Dowling RJ, Zakikhani M, Fantus IG, Pollak M, Sonenberg N.
Cancer Research 2007 Nov; 67(22):10804.
- [Activation of the PTEN/mTOR/STAT3 pathway in breast cancer stem-like cells is required for viability and maintenance.](#)
Zhou J, Wulfschlegel J, Zhang H, Gu P, Yang Y, Deng J, Margolick JB, Liotta LA, Petricoin E 3rd, Zhang Y.
PNAS 2007 Oct; 104(41):16158.

Pathway

- [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](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)

- [Cardiovascular Diseases](#)
- [Colonic Neoplasms](#)
- [Diabetes Complications](#)
- [Esophageal Neoplasms](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Rectal Neoplasms](#)
- [Tobacco Use Disorder](#)