

Datasheet for ABIN3031742
anti-MTOR antibody (AA 2459-2488)[Go to Product page](#)

5 Images

Overview

| | |
|----------------------|---|
| Quantity: | 0.4 mL |
| Target: | MTOR (mTOR) |
| Binding Specificity: | AA 2459-2488 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This MTOR antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF) |

Product Details

| | |
|-----------------------------|---|
| Immunogen: | A portion of amino acids 2459-2488 from the human protein was used as the immunogen for this mTOR antibody. |
| Isotype: | Ig Fraction |
| Cross-Reactivity (Details): | Expected species reactivity: Mouse, Rat |
| Purification: | Antigen affinity purified |

Target Details

| | |
|-------------------|--|
| Target: | MTOR (mTOR) |
| Alternative Name: | mTOR (FRAP1) (mTOR Products) |
| Background: | FRAP1/mTOR belongs to a family of phosphatidylinositol kinase-related kinases. These kinases |

Target Details

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.

UniProt: [P42345](#)

Pathways: [PI3K-Akt Signaling](#), [RTK Signaling](#), [AMPK Signaling](#), [Interferon-gamma Pathway](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Regulation of Actin Filament Polymerization](#), [Regulation of Muscle Cell Differentiation](#), [Regulation of Cell Size](#), [Skeletal Muscle Fiber Development](#), [Regulation of Carbohydrate Metabolic Process](#), [Autophagy](#), [CXCR4-mediated Signaling Events](#), [BCR Signaling](#), [Warburg Effect](#)

Application Details

Application Notes: Titration of the mTOR antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:10-1:50,Immunofluorescence: 1:10-1:50

Restrictions: For Research Use only

Handling

Format: Liquid

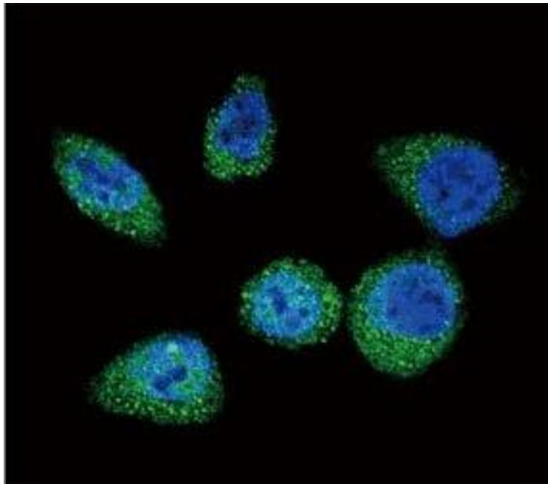
Buffer: In 1X PBS pH 7.4 with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

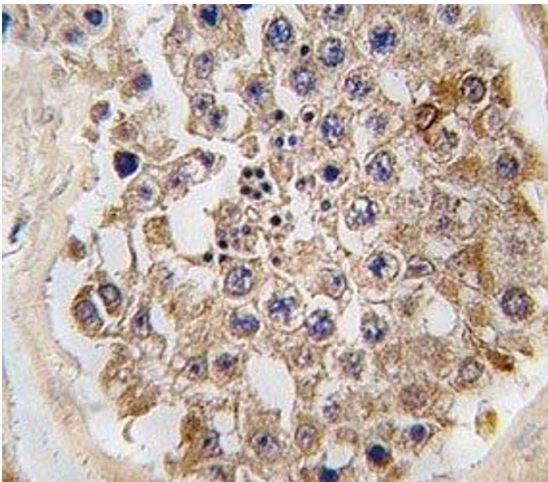
Storage: -20 °C

Storage Comment: Aliquot the mTOR antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



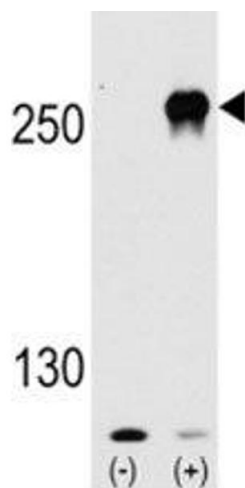
Immunofluorescence

Image 1. Confocal immunofluorescent analysis of mTOR antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used as a nuclear counterstain (blue).



Immunohistochemistry

Image 2. IHC analysis of FFPE human testis tissue stained with mTOR antibody



Western Blotting

Image 3. 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).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3031742.