

Datasheet for ABIN2855088
anti-MTOR antibody (C-Term)

15 Images

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Overview

Quantity:	100 µL
Target:	MTOR (mTOR)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MTOR antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunocytochemistry (ICC), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the C-terminus region of human mTOR. The exact sequence is proprietary.
Isotype:	IgG
Characteristics:	Rabbit Polyclonal antibody to mTOR (mechanistic target of rapamycin (serine/threonine kinase)) mTOR antibody [C3], C-term
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	MTOR (mTOR)
Alternative Name:	mTOR (mTOR Products)
Background:	<p>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.</p> <p>Cellular Localization: Endoplasmic reticulum membrane, Peripheral membrane protein, Cytoplasmic side , Golgi apparatus membrane, Peripheral membrane protein, Cytoplasmic side , Mitochondrion outer membrane, Peripheral membrane protein, Cytoplasmic side</p>
Molecular Weight:	289 kDa
Gene ID:	2475
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

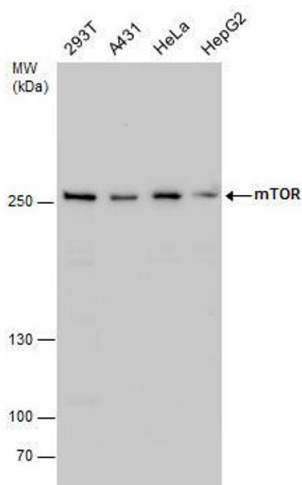
Application Notes:	<p>Suggested dilution Reference CHIP assay Assay-dependent dilution ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Immunoprecipitation 1:100-1:500* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceCHIP assayAssay-dependent dilution ICC/IF1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Immunoprecipitation1:100-1:500* Western blot1:500-1:3000*</p>
Comment:	Positive Control: 293T , A431 , HeLa , HepG2 , mouse brain , *Flag-human mTOR transfected 293T
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS, 20 % Glycerol (pH 7). 0.025 % ProClin 300 was added as a preservative.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

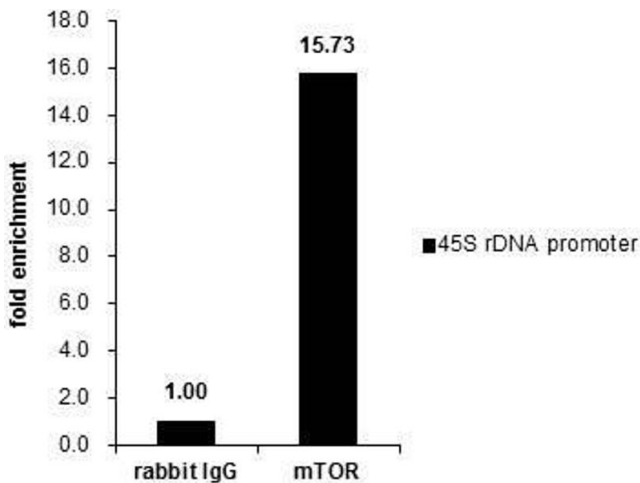
Publications

Product cited in:	<p>Wang, Cao, Shu, Zhu, Peng, Ran, Wu, Luo, Zuo, Luo, Zhou, Shi, Weng, Huang, He, Fan: "Long non-coding RNA (lncRNA) H19 induces hepatic steatosis through activating MLXIPL and mTORC1 networks in hepatocytes." in: Journal of cellular and molecular medicine, Vol. 24, Issue 2, pp. 1399-1412, (2020) (PubMed).</p> <p>Cheung, Hsu, Lin, Chen, Wang, Huang, Juan: "ZNF322A-mediated protein phosphorylation induces autophagosome formation through modulation of IRS1-AKT glucose uptake and HSP-elicited UPR in lung cancer." in: Journal of biomedical science, Vol. 27, Issue 1, pp. 75, (2020) (PubMed).</p> <p>Peng, Chen, Wang, Zhu, Wu, Luo, Zuo, Luo, Zhou, Shi, Weng, Huang, He, Fan: "Bone morphogenetic protein 4 (BMP4) alleviates hepatic steatosis by increasing hepatic lipid turnover and inhibiting the mTORC1 signaling axis in hepatocytes." in: Aging, Vol. 11, Issue 23, pp. 11520-11540, (2019) (PubMed).</p> <p>Li, Yu, Jiao, Wang, Zhang, Sun: "Vandetanib (ZD6474) induces antiangiogenesis through mTOR-HIF-1 alpha-VEGF signaling axis in breast cancer cells." in: Oncotargets and therapy, Vol. 11, pp. 8543-8553, (2018) (PubMed).</p> <p>Xu, Wu, Zheng, Yu, Yang, Yao, Zhou, Ching, Lau: "Proteome profiling of cadmium-induced apoptosis by antibody array analyses in human bronchial epithelial cells." in: Oncotarget, Vol. 7, Issue 5, pp. 6146-58, (2017) (PubMed).</p>
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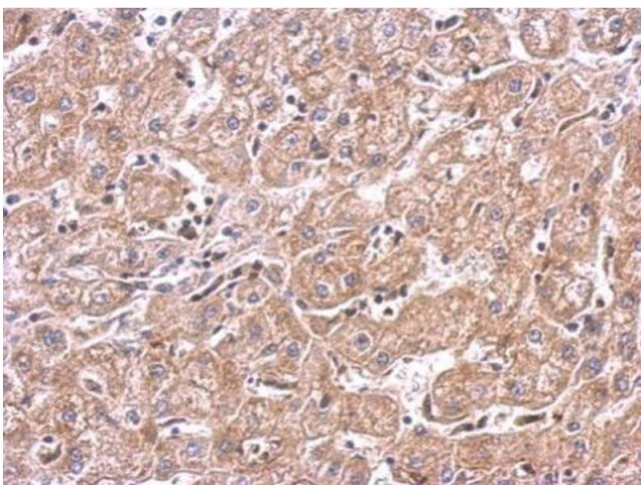
Western Blotting

Image 1. WB Image mTOR antibody detects mTOR protein by western blot analysis. Various whole cell extracts (30 μ g) were separated by 5% SDS-PAGE, and the membrane was blotted with mTOR antibody, diluted by 1:1000.



Chromatin Immunoprecipitation

Image 2. ChIP Image Cross-linked ChIP was performed with 293T chromatin extract and 5 μ g of either control rabbit IgG or anti-mTOR antibody. The precipitated DNA was detected by PCR with primer set targeting to 45S rDNA promoter.



Immunohistochemistry

Image 3. IHC-P Image mTOR antibody detects FRAP1 protein at cytosol on human hepatoma by immunohistochemical analysis. Sample: Paraffin-embedded hepatoma. mTOR antibody, dilution: 1:500.

Please check the [product details page](#) for more images. Overall 15 images are available for ABIN2855088.