For Research Use Only

mTOR Substrates Antibody Kit

Catalog Number: PK30025

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产品介绍

mTOR Substrates Antibody Kit为研究 mTOR 激活以及下游磷酸化的关键蛋白提供了一种经济有效的工具。对于开始新项目的研究人员、筛选多个潜在目标的研究人员或那些仅仅需要较少体积抗体的研究人员来说是非常适合的。

产品成分

mTOR Substrates Antibody Kit 含有针对 mTOR 通路 5 个关键磷酸蛋白靶点的抗体。

Antigen	Catalog No.	Host, clonality	Tested Reactivity	Applications	Volume
mTOR	81670-1-RR	Rabbit Monoclonal	H, M, R	WB, IP, IHC, IF/ICC, FC (Intra)	20 uL
Phospho-mTOR (Ser2448)	80596-1-RR	Rabbit Monoclonal	H, R	WB, IF/ICC	20 uL
Phospho-p70(S6K) (Thr389)	82373-1-RR	Rabbit Monoclonal	H	WB	20 uL
Phospho-4EBP1 (Thr37)	81812-4-RR	Rabbit Monoclonal	H	WB	20 uL
Phospho-RPS6 (Ser235/236)	80130-2-RR	Rabbit Monoclonal	H	WB	20 uL

包装规格

5× 20 uL

保存条件

-20℃保存。自收到之日起一年内保持稳定。

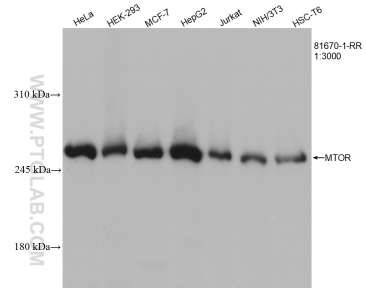
背景介绍

哺乳动物雷帕霉素靶蛋白（mTOR）构成了一个强大的信号传导途径的中心，该途径调节细胞代谢、增殖和存活。其激活依赖于Ser2448位点的磷酸化，这通常是由上游的AKT介导的。激活后的mTOR可以进一步磷酸化多个下游底物，以控制mTOR途径的各种效应功能。p70(S6K)在Thr389位点的磷酸化导致其完全激活，并促进细胞增殖以及通过后续对RPS6在Ser235和236位点的磷酸化促进mRNA翻译。mTOR还可以通过在Thr37和46位点磷酸化4EBP1来促进翻译。这些磷酸化事件减少了4EBP1与eIF4E的结合能力，进而减少了对帽依赖性翻译的抑制。

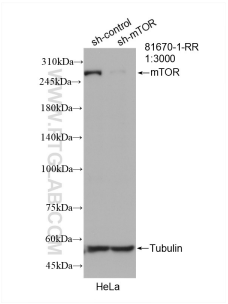
标准实验流程

点击此处查看我们用于各种应用的标准流程，包括WB、IP、IHC、IF、FC和ELISA。

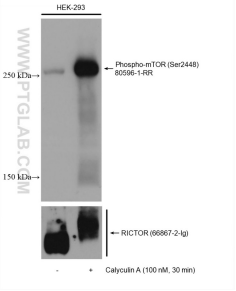
Validation Data



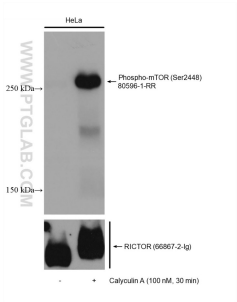
Various lysates were subjected to SDS PAGE followed by western blot with 81670-1-RR (mTOR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



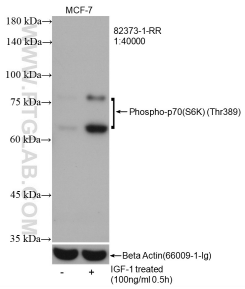
WB result of mTOR antibody (81670-1-RR; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-mTOR transfected HeLa cells.



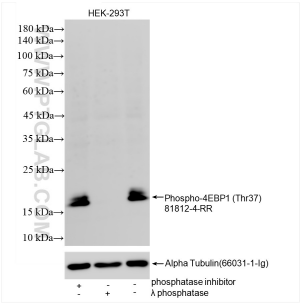
Non-treated and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80596-1-RR (Phospho-mTOR (Ser2448) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with RICTOR antibody (66867-2-Ig) subsequently.



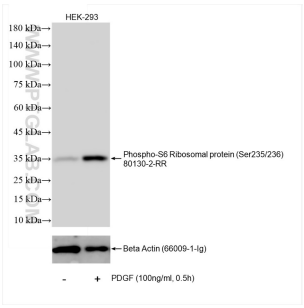
Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 80596-1-RR (Phospho-mTOR (Ser2448) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with RICTOR antibody (66867-2-Ig) subsequently.



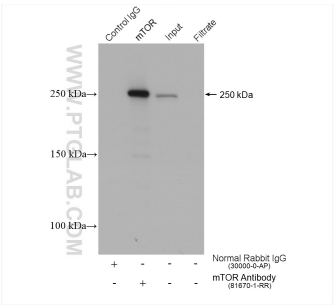
Non-treated and IGF-1 treated MCF-7 cells were subjected to SDS PAGE followed by western blot with 82373-1-RR (Phospho-p70(S6K) (Thr389) antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with beta actin antibody (66009-1-Ig) as loading control.



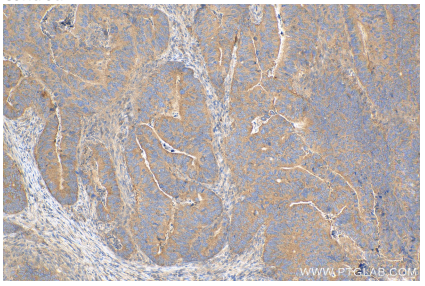
Non-treated HEK-293T cells, phosphatase inhibitor treated HEK-293T cells and λ phosphatase treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 81812-4-RR (Phospho-4EBP1 (Thr37) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with... Alpha Tubulin (66031-1-Ig) antibody as a loading control.



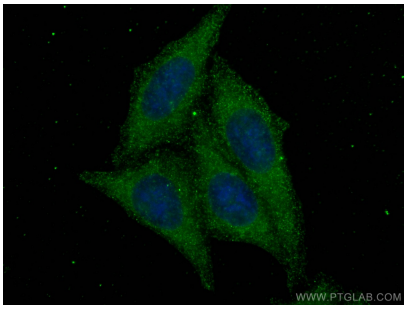
Non-treated and PDGF treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80130-2-RR (RPS6-phospho-S235/236 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as a loading control.



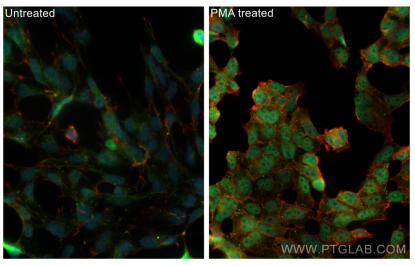
IP result of anti-mTOR (IP:81670-1-RR, 4ug; Detection:81670-1-RR 1:1000) with HeLa cells lysate 1760 ug.



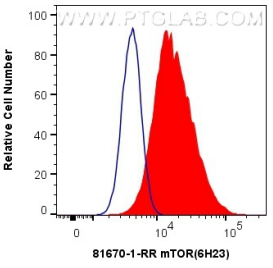
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 81670-1-RR (mTOR antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using mTOR antibody (81670-1-RR, Clone: 6H23) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed PMA treated HEK-293 cells using Phospho-mTOR (Ser2448) antibody (80596-1-RR, Clone: 3L18) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human mTOR (81670-1-RR, Clone:6H23) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm

For technical support and original validation data for this product please contact

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