

产品介绍

AKT Activation Antibody Kit为研究参与AKT通路活化步骤的关键磷酸化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

AKT Activation Antibody Kit 包含在AKT通路激活中起关键作用的5个磷酸化蛋白靶点的抗体。

Antigen	Catalog No.	Host, clonality	Tested Reactivity	Applications	Volume
Phospho-PDK1 (Ser241)	29241-1-AP	Rabbit Polyclonal	H, M	WB	20 uL
Phospho-PTEN (Thr382/383)	29246-1-AP	Rabbit Polyclonal	H, M	WB	20 uL
Phospho-AKT (Ser473)	80455-1-RR	Rabbit Monoclonal	H	WB	20 uL
Phospho-AKT (Thr308)	29163-1-AP	Rabbit Polyclonal	H	WB	20 uL
AKT	60203-2-Ig	Mouse Monoclonal	H, M, R	WB, IP, IHC, IF	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。

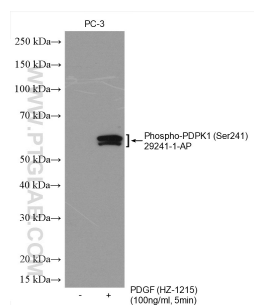
背景介绍

AKT 又称为蛋白激酶 B，是一种丝氨酸/苏氨酸激酶，它可锚定多种信号通路，调节细胞生长、增殖、代谢、转移和凋亡等多种生物学过程。它通过 PDK1 在Ser473 和 Thr308两个位点的磷酸化而激活，而 PDK1 本身在 Ser241 位点开始磷酸化后才具有功能活性。AKT 活性可被 PTEN 抑制，PTEN 可使 PIP3 去磷酸化，从而阻止 PDK1 的激活。然而，PTEN Thr382/383 位点磷酸化会导致其磷酸酶活性和肿瘤抑制功能的丧失。这可以增加几种不同癌症类型中 AKT 通路的激活。

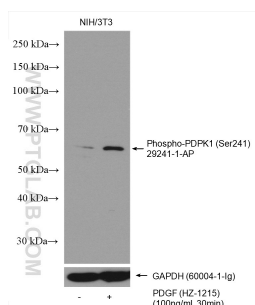
标准实验流程

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。

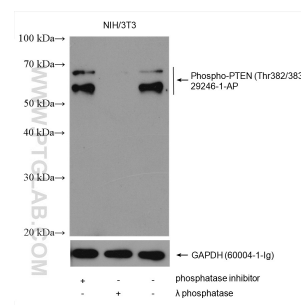
Validation Data



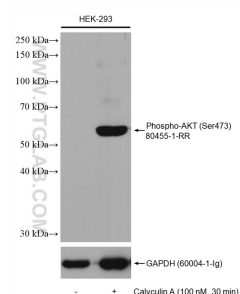
Non-treated PC-3 and PDGF (HZ-1215) treated PC-3 cells were subjected to SDS PAGE followed by western blot with 29241-1-AP (Phospho-PDPK1 (Ser241) antibody) at dilution of 1:1000 incubated at 4°C overnight.



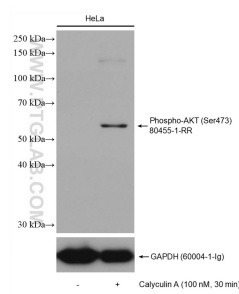
Non-treated NIH/3T3 and PDGF (HZ-1215) treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 29241-1-AP (Phospho-PDPK1 (Ser241) antibody) at dilution of 1:2000 incubated at 4°C overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



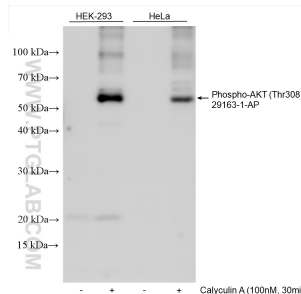
Non-treated NIH/3T3, phosphatase inhibitor treated and λ phosphatase treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 29246-1-AP (Phospho-PTEN (Thr382/383) antibody) at dilution of 1:5000 incubated at room temperature for 1 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



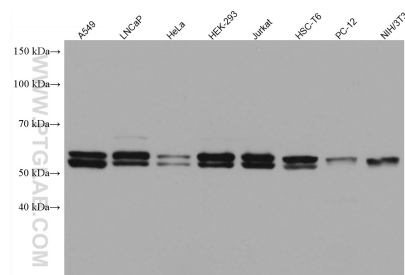
Non-treated and Calyculin A treated HEK-293 cells were subjected to SDS PAGE followed by western blot with 80455-1-RR (Phospho-AKT (Ser473) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



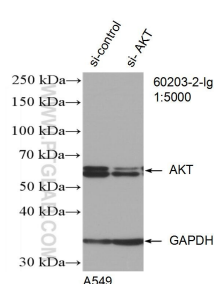
Non-treated and Calyculin A treated HeLa cells were subjected to SDS PAGE followed by western blot with 80455-1-RR (Phospho-AKT (Ser473) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



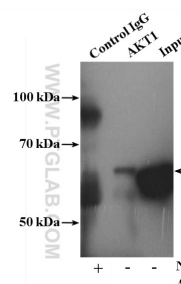
Non-treated and Calyculin A treated cells were subjected to SDS PAGE followed by western blot with 29163-1-AP (Phospho-AKT (Thr308) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



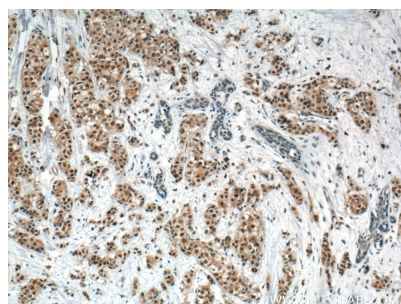
Various lysates were subjected to SDS PAGE followed by western blot with 60203-2-Ig (AKT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



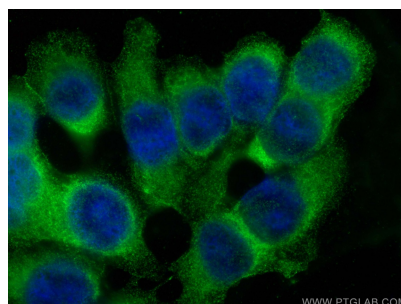
WB result of AKT antibody (60203-2-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AKT transfected A549 cells.



IP result of anti-AKT (IP:60203-2-Ig, 5ug; Detection:60203-2-Ig 1:1000) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 60203-2-Ig (AKT 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 MCF-7 cells using AKT antibody (60203-2-Ig, Clone: 2C5D1) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.