



碧云天生物技术/Beyotime Biotechnology
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Phospho-Akt (Ser473)抗体(兔多抗)

产品编号	产品名称	包装
AA329	Phospho-Akt (Ser473)抗体(兔多抗)	>10次

产品简介:

来源	用途	交叉反应性	抗体识别位点	Akt分子量
Rabbit	WB, IP, F	H, M, R, C, Hm	Akt C-terminal	~60kD

WB, Western blot; IP, Immunoprecipitation; F, Flow cytometry.

H, human; M, mouse; R, rat; C, chick; Hm, hamster.

- 本Phospho-Akt(Ser473)抗体(Phospho-Akt (Ser473) antibody)为进口分装, 用人工合成的小鼠Akt Ser473附近的一段多肽进行适当修饰后免疫rabbit, 然后用protein A和抗原多肽亲和柱经过两步纯化得到的高纯度抗体。
- 本Phospho-Akt(Ser473)抗体识别Ser473被磷酸化的Akt1。相应位点被磷酸化的Akt2和Akt3也可以被本抗体识别。未发现本抗体可以识别其它位点磷酸化的Akt或磷酸化的其它蛋白例如磷酸化PKC、p70 S6 kinase等。
- Akt又称PKB或Rac, 在细胞存活和凋亡中起重要作用。胰岛素等生长和存活因子都可以激活Akt信号途径。Akt的Ser473可以被PDK2磷酸化。PI3 Kinase-Akt信号途径是一条经典的信号途径, LY294002等PI3 kinase的抑制剂抑制PI3 kinase时, 通常就会抑制Akt激活。
- 配套提供了Western一抗稀释液, 可以用于Western检测时的一抗稀释。
- 建议抗体使用时的稀释比例如下(实际使用时需根据抗原水平的高低作适当调整):

WB	IP	F
1:1000	1:100	1:25

- 本抗体如果用于常规的Western检测, 至少可以检测10次。

包装清单:

产品编号	产品名称	包装
AA329-1	Phospho-Akt (Ser473)抗体(兔多抗)	10μl
AA329-2	Western一抗稀释液	10ml
—	说明书	1份

保存条件:

Phospho-Akt(Ser473)抗体-20°C保存, Western一抗稀释液-20°C或4°C保存, 一年有效。Western一抗稀释液优先推荐4°C保存, 长期不使用可以考虑-20°C保存, 但冻融可能会导致出现轻微的浑浊和少量不溶物。

注意事项:

- 对于本抗体, Western检测时一抗要4°C缓慢摇动过夜, 如果仅短时间与一抗孵育检测效果较差。
- 在Western实验后, 请注意回收稀释的抗体。回收的抗体在进行Western实验时至少可以重复使用10次。稀释后的抗体, 包括已经使用过的稀释抗体, 4°C保存。
- 回收后重复使用的抗体, 使用方法同新鲜稀释的抗体。如果在重复使用过程中发现抗体出现轻微混浊现象, 可以10000g离心1-3分钟, 取上清用于后续检测。如果回收的抗体出现明显的絮状物或长霉长菌等情况, 则可以考虑废弃该抗体。
- 本产品仅限于专业人员的科学研究用, 不得用于临床诊断或治疗, 不得用于食品或药品, 不得存放于普通住宅内。
- 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

使用说明:

1. Western检测:

- a. 按照1:1000用碧云天提供的Western一抗稀释液稀释抗体。
- b. 把经过封闭的蛋白膜与稀释好的一抗4°C缓慢摇动过夜, 确保稀释的抗体至少能在摇动的瞬间覆盖蛋白膜。
- c. 回收稀释的一抗, 4°C保存以备下次继续使用。
- d. 按照Western的实验步骤进行后续的洗涤、二抗孵育、洗涤和检测等操作。具体操作可以参考如下网页:
<http://www.beyotime.com/support/western.htm>

2. 免疫染色:

可以使用碧云天生产的免疫染色一抗稀释液(P0103)稀释抗体, 使用后注意回收稀释好的一抗, 具体操作可以参考如下网

3. 其它实验操作请自行参考适当的protocol进行。

使用本产品的文献：

1. Mu Zhang, Chunjie Yang, Meng Zhu, Li Qian, Yan Luo, Huimin Cheng, Rong Geng, Xiaojun Xu, Cheng Qian, Yu Liu . Saturated fatty acids entrap PDX1 in stress granules and impede islet beta cell function Diabetologia. 2021 May;64(5):1144-1157.
2. Zhai YP, Lu Q, Liu YW, Cheng Q, Wei YQ, Zhang F, Li CL, Yin XX. . Over-production of nitric oxide by oxidative stress-induced activation of the TGF- β 1/PI3K/Akt pathway in mesangial cells cultured in high glucose. Acta Pharmacol Sin. 2013 Apr;34(4):507-14.
3. Zhong W, Zou G, Gu J, Zhang J. . L-arginine attenuates high glucose-accelerated senescence in human umbilical vein endothelial cells. Diabetes Res Clin Pract. 2010;89(1):38-45.
4. Gong C, Liao H, Wang J, Lin Y, Qi J, Qin L, Tian LQ, Guo FJ. . LY294002 induces G0/G1 cell cycle arrest and apoptosis of cancer stem-like cells from human osteosarcoma via down-regulation of PI3K activity. ASIAN PAC J CANCER P . 2012;13(7):3103-7.
5. Feng Y, Zou Z, Gao L, Zhang X, Wang T, Sun H, Liu Y, Chen X.. Umbilical Cord Blood-Derived Stromal Cells Regulate Megakaryocytic Proliferation and Migration Through SDF-1/PECAM-1 Pathway. Cell Biochem Biophys. 2012 Sep;64(1):5-15.
6. Li J, Wu F, Sheng F, Li YJ, Jin D, Ding X, Zhang S.. NOK/STYK1 interacts with GSK-3 β and mediates Ser9 phosphorylation through activated Akt. FEBS Lett. 2012 Nov 2;586(21):3787-92.
7. Lu Q, Zhai Y, Cheng Q, Liu Y, Gao X, Zhang T, Wei Y, Zhang F, Yin X.. The Akt-FoxO3a-manganese superoxide dismutase pathway is involved in the regulation of oxidative stress in diabetic nephropathy. Exp Physiol. 2013 Apr;98(4):934-45.
8. Luo L, Lu AM, Wang Y, Hong A, Chen Y, Hu J, Li X, Qin ZH. . Chronic resistance training activates autophagy and reduces apoptosis of muscle cells by modulating IGF-1 and its receptors, Akt/mTOR and Akt/FOXO3a signaling in aged rats. Exp Gerontol. 2013 Apr;48(4):427-36.
9. Li Q, Gao C, Deng H, Song Q, Yuan L . Benzo[a]pyrene induces pyroptotic and autophagic death through inhibiting PI3K/Akt signaling pathway in HL-7702 human normal liver cells. J Toxicol Sci. 2019 44(2):121-131.
10. Liu J, Liang H, Chen C, Wang X, Qu F, Wang H, Yang K, Wang Q, Zhao N, Meng J, Gao A . Ivermectin induces autophagy-mediated cell death through the AKT/mTOR signaling pathway in glioma cells. BIOSCIENCE REP. 2019 Dec 20 39(12). pii: BSR20192489.
11. Wang Y, Hui J, Li R, Fu Q, Yang P, Xiao Y, Hui J . GBX2, as a tumor promoter in lung adenocarcinoma, enhances cells viability, invasion and migration by regulating the AKT/ERK signaling pathway. J Gene Med. 2020 Feb 22(2):e3147.
12. Yuanchun Wang, Jianping Hui, Renting Li, Qiaqiao Fu, Pu Yang, Yingchun Xiao, Jianrong Hui . GBX2, as a tumor promoter in lung adenocarcinoma, enhances cells viability, invasion and migration by regulating the AKT/ERK signaling pathway J Gene Med. 2020 Feb;22(2):e3147.
13. Jingjing Liu, Hongsheng Liang, Saadia Khilji, Haitao Li, Dandan Song, Chen Chen, Xiaoxing Wang, Yiwei Zhang, Ning Zhao, Xina Li, Aili Gao . Moxidectin induces Cytostatic Autophagic Cell Death of Glioma Cells through inhibiting the AKT/mTOR Signalling Pathway J Cancer. 2020 Aug 3;11(19):5802-5811.
14. Xinyu Liu, Feiran Song, Chunna Liu, Yi Zhang . 25-OH-PPD inhibits hypertrophy on diabetic cardiomyopathy via the PI3k/Akt/GSK-3 β signaling pathway Exp Ther Med. 2020 Sep;20(3):2141-2147.
15. Ensheng Zhang, Jing Wang, Qian Chen, Zhaohao Wang, Dong Li, Ning Jiang, Xiuli Ju . Artesunate ameliorates sepsis-induced acute lung injury by activating the mTOR/AKT/PI3K axis Gene. 2020 Oct 30;759:144969.
16. J J Zhang, L J Cai, K Pang, Y Dong, Z G Zhang, B B Li, R Li, C H Han . Paeonol inhibits proliferation and induces cell apoptosis of human T24 and 5637 bladder cancer cells in vitro and in vivo Clin Transl Oncol. 2021 Mar;23(3):601-611.
17. Jing-Hua Song, Hong-Yan Jia, Tian-Peng Shao, Zhi-Bao Liu, Yuan-Ping Zhao . Hydrogen gas post-conditioning alleviates cognitive dysfunction and anxiety-like behavior in a rat model of subarachnoid hemorrhage Exp Ther Med. 2021 Oct;22(4):1121.
18. Ziqiu Jia, Zhao Jin, Shuli Shao, Hu Xu, Wen Li, Mahmood Khan, Weiyu Wang, Weiwei Zhang, Yingning Sun . KLF7 promotes preadipocyte proliferation via activation of the Akt signaling pathway by Cis-regulating CDKN3 Acta Biochim Biophys Sin (Shanghai). 2022 Oct 25;54(10):1486-1496.

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