



碧云天生物技术/Beyotime Biotechnology
 订货热线: 400-1683301或800-8283301
 订货e-mail: order@beyotime.com
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 网址: http://www.beyotime.com

Caspase-3 Rabbit Polyclonal Antibody

| 产品编号 | 产品名称 | 包装 |
|--------|--------------------------------------|------|
| AF0081 | Caspase-3 Rabbit Polyclonal Antibody | 50μl |

产品简介:

| 来源 | 用途 | 交叉反应性 | 分子量 |
|--------|----------------------|-------|-------|
| Rabbit | WB, FC, IHC, ICC, IF | H, M | 31KDa |

WB, Western blot; IP, Immunoprecipitation; IF, Immunofluorescence; IHC, Immunohistochemistry; ICC, Immunocytochemistry; FC, Flow Cytometry; ELISA, Enzyme-linked Immunosorbent Assay; ChIP, Chromatin Immunoprecipitation Assay.

H, Human; M, Mouse; R, Rat; C, Chicken; Cw, Cow; Dg, Dog; Gp, Guinea pig; Hm, Hamster; Hr, Horse; Mk, Monkey; Pg, Pig; Rb, Rabbit; S, Sheep; Z, Zebrafish; All, all species expected.

- 配套提供了Western一抗稀释液, 可以用于Western检测或其它适当用途时的一抗稀释。
- 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 | IF | IHC | ICC | FC | ELISA | ChIP |
|--------------|----|-------|-------|-------|-------------|-------|------|
| 1:500-1:1000 | - | 1:200 | 1:200 | 1:200 | 1:100-1:200 | - | - |

➤ 抗体详细信息如下:

| About this Antibody | |
|---------------------|--|
| Name | Caspase-3 Rabbit Polyclonal Antibody |
| Category | Polyclonal antibody(pAb); Primary antibody |
| Isotype | IgG |
| Purification | Peptide affinity purified |
| About the Immunogen | |
| Immunogen | This antibody is produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to a region of Caspase-3. |
| Gene ID | 836 |
| SwissProt | P42574 |
| Synonyms | Apopain precursor; CASP-3; CPP-32; CPP32; Caspase-3; Cysteine protease CPP32; EC 3.4.22.-; ICE3; SCA-1; SREBP cleavage activity 1; Yama protein |
| Category | Apoptosis |
| Background | Caspase-3 (CPP-32, Apoptain, Yama, SCA-1) is a critical executioner of apoptosis, as it is either partially or totally responsible for the proteolytic cleavage of many key proteins, such as the nuclear enzyme poly (ADP-ribose) polymerase (PARP). Heterotetramer that consists of two anti-parallel arranged heterodimers, each one formed by a 17 kDa (p17) and a 12 kDa (p12) subunit. |

包装清单:

| 产品编号 | 产品名称 | 包装 |
|--------|--------------------------------------|------|
| AF0081 | Caspase-3 Rabbit Polyclonal Antibody | 50μl |
| AZ050 | Western一抗稀释液 | 50ml |
| — | 说明书 | 1份 |

保存条件:

Caspase-3 Rabbit Polyclonal Antibody -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:

- 如果本抗体用于Western blot (WB)、免疫荧光(IF)、免疫细胞化学(ICC)等实验, 请注意回收使用过的稀释抗体。回收的抗体通

常至少可以重复使用5-10次。稀释后的抗体，包括已经使用过的稀释抗体，请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10,000g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菌等情况，则可以考虑废弃该抗体。
- 提供的Western一抗稀释液也可以用于免疫荧光(IF)、免疫组化(IHC)、免疫细胞化学(ICC)等适当用途。如果希望获得最佳的检测效果，请考虑使用上述检测专用的一抗稀释液。
- 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：

请根据抗体的实际用途选择相应的使用方法。

1. Western检测：

- 按照推荐的稀释比例用碧云天提供的Western一抗稀释液稀释抗体。
- 把经过封闭的蛋白膜与稀释好的一抗4°C缓慢摇动过夜或室温缓慢摇动2小时，确保稀释的抗体至少能在摇动的瞬间覆盖蛋白膜。
- 回收稀释的一抗，4°C保存以备下次继续使用。
- 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页：
<http://www.beyotime.com/support/immunol-staining.htm>

3. 其它实验操作请自行参考适当的protocol进行。

4. 代表性图片：

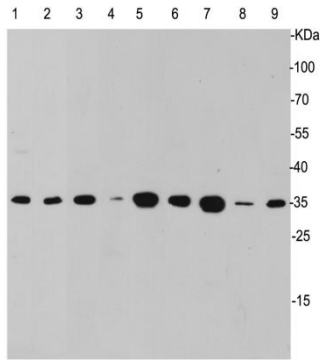


Fig. 1. Western blot analysis of Caspase-3 on different cell lysates using anti- Caspase-3 antibody at 1/1000 dilution. Positive control: Lane 1: Human lung Lane 2: Human brain Lane 3: Jurkat Lane 4: F9 Lane 5: NCCTI Lane 6: Daudi Lane 7: Raji Lane 8: MCF-7 Lane 9: HeLa

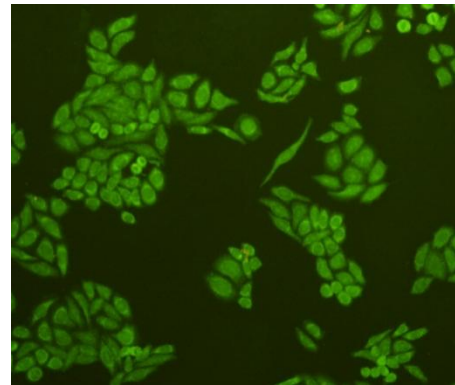


Fig. 2. Immunocytochemistry staining of Caspase-3 in HepG2 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X-100/PBS.

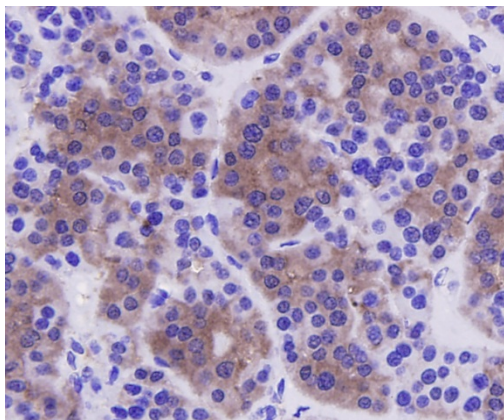


Fig. 3. Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissue using anti-Caspase-3 antibody. Counter stained with hematoxylin.

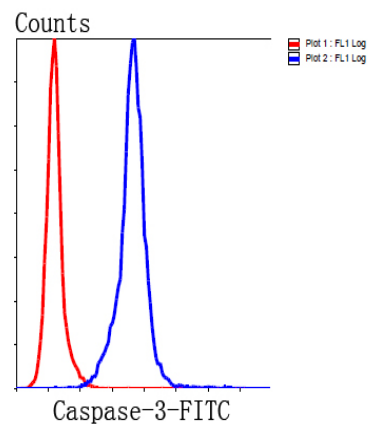


Fig. 4. Flow cytometric analysis of HeLa cells with Caspase-3 antibody at 1/100 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti rabbit IgG (FITC) was used as the secondary antibody.

相关产品:

| 产品编号 | 产品名称 | 包装 |
|---------|--------------------------------|----------|
| P0006 | Bradford蛋白浓度测定试剂盒 | 1000次 |
| P0010 | BCA蛋白浓度测定试剂盒(增强型) | 500次 |
| P0012 | BCA蛋白浓度测定试剂盒 | 500次 |
| P0012A | SDS-PAGE凝胶配制试剂盒 | 1盒 |
| P0012AC | SDS-PAGE凝胶快速配制试剂盒 | 1盒 |
| P0013 | Western及IP细胞裂解液 | 100ml |
| P0013B | RIPA裂解液(强) | 100ml |
| P0014B | SDS-PAGE电泳液 | 10×1L |
| P0015 | SDS-PAGE蛋白上样缓冲液(5X) | 2ml |
| P0018 | BeyoECL Plus(超敏ECL化学发光试剂盒) | 共100ml |
| P0018A | BeyoECL Star(特超敏ECL化学发光试剂盒) | 共100ml |
| P0020 | 显影定影试剂盒 | 各1升 |
| P0021B | Western转膜液 | 10×1L |
| P0023A | Western一抗稀释液 | 100ml |
| P0023B | Western封闭液 | 100ml |
| P0023C6 | Western洗涤液(10X) | 10×100ml |
| P0023D | Western二抗稀释液 | 100ml |
| P0025 | Western一抗二抗去除液 | 250ml |
| P0252 | QuickBlock™ Western封闭液 | 100ml |
| P0256 | QuickBlock™ Western一抗稀释液 | 100ml |
| P0258 | QuickBlock™ Western二抗稀释液 | 100ml |
| P0066 | 预染蛋白质分子量标准 | 200μl |
| P0068 | 彩色预染蛋白质分子量标准 | 200μl |
| P0071 | BeyoColor™彩色预染蛋白质分子量标准 | 200μl |
| P0098 | 免疫染色固定液 | 100ml |
| P0102 | 免疫染色封闭液 | 100ml |
| P0103 | 免疫染色一抗稀释液 | 100ml |
| P0106L | 免疫染色洗涤液(10X) | 10×100ml |
| P0108 | 免疫荧光染色二抗稀释液 | 100ml |
| P0110 | 免疫染色(非荧光)二抗稀释液 | 100ml |
| P0260 | QuickBlock™免疫染色封闭液 | 100ml |
| P0262 | QuickBlock™免疫染色一抗稀释液 | 100ml |
| P0265 | QuickBlock™免疫荧光染色二抗稀释液 | 100ml |
| P0267 | QuickBlock™免疫组化染色二抗稀释液 | 100ml |
| P0126 | 抗荧光淬灭封片液 | 5ml |
| FFP24 | PVDF膜(进口分装, 6.6×8.5cm, 0.2μm) | 20张/包装 |
| FFP32 | PVDF膜(进口原装, 6.6×8.5cm, 0.45μm) | 20张/包装 |
| FFP51 | 转印滤纸(7.5×10cm) | 100片/包装 |
| FF057 | X-OMAT BT胶片(原柯达, 5×7英寸) | 100张/盒 |
| FFC58 | 压片暗盒(5×7英寸) | 1个 |

使用本产品的文献:

1. Tianyi Yan, Fuqiu Li, Jinran Li, Feng Chen . Antifungal Activity of a Neodymium-Doped Yttrium Aluminum Garnet 1,064-Nanometer Laser against *Sporothrix globosa* by Inducing Apoptosis and Pyroptosis via the NLRP3/Caspase-1 Signaling Pathway: In Vit Microbiol Spectr. 2021 Dec 22;9(3):e0136421.
2. Liu P, Dong J. . Protective effects of carnolic acid against mitochondria-mediated injury in H9c2 cardiomyocytes induced by hypoxia/reoxygenation. Exp Ther Med. 2017 Dec;14(6):5629-5634.
3. Yun Fu, Yuedian Ye, Guifang Zhu, Yangwei Xu, Jingbo Sun, Hongmei Wu, Feiyan Feng, Zhihui Wen, Shanshan Jiang, Yanyan Li, Qingling Zhang . Resveratrol induces human colorectal cancer cell apoptosis by activating the mitochondrial pathway via increasing reactive oxygen species Mol Med Rep. 2021 Mar;23(3):170.

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