



碧云天生物技术/Beyotime Biotechnology  
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 技术咨询: info@beyotime.com  
 网址: http://www.beyotime.com

## HSP70 Rabbit Polyclonal Antibody

| 产品编号   | 产品名称                             | 包装   |
|--------|----------------------------------|------|
| AF0189 | HSP70 Rabbit Polyclonal Antibody | 50μl |

### 产品简介:

| 来源     | 用途               | 交叉反应性   | 分子量   |
|--------|------------------|---------|-------|
| Rabbit | WB, IHC, ICC, IF | H, M, R | 70KDa |

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 | -  | -     | -    |

- 抗体详细信息如下:

| About this Antibody |  |
|---------------------|--|
| Name                | HSP70 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 HSP70.   |
| Gene ID             | 3304   |
| SwissProt           | P08107   |
| Synonyms            | HSP72; HSPA1; HSP70I; HSP70-1; HSP70-1A; HSPA1A  |
| Category            | Protein Folding and Trafficking  |
| Background          | The 70 kilodalton heat shock proteins (Hsp70s) are a family of conserved ubiquitously expressed heat shock proteins. Proteins with similar structure exist in virtually all living organisms. The Hsp70s are an important part of the cell's machinery for protein folding, and help to protect cells from stress. When not interacting with a substrate peptide, Hsp70 is usually in an ATP bound state. Hsp70 by itself is characterized by a very weak ATPase activity, such that spontaneous hydrolysis will not occur for many minutes. As newly synthesized proteins emerge from the ribosomes, the substrate binding domain of Hsp70 recognizes sequences of hydrophobic amino acid residues, and interacts with them. This spontaneous interaction is reversible, and in the ATP bound state Hsp70 may relatively freely bind and release peptides. However, the presence of a peptide in the binding domain stimulates the ATPase activity of Hsp70, increasing its normally slow rate of ATP hydrolysis. |

### 包装清单:

| 产品编号   | 产品名称                             | 包装   |
|--------|----------------------------------|------|
| AF0189 | HSP70 Rabbit Polyclonal Antibody | 50μl |
| AZ050  | Western一抗稀释液                     | 50ml |
| -      | 说明书                              | 1份   |

## 保存条件:

HSP70 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长菌等情况, 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:

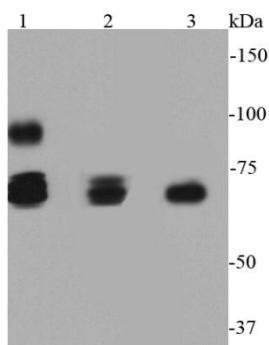


Fig. 1. Western blot analysis of HSP70 on different cell lysates using anti-HSP70 antibody at 1/500 dilution. Positive control: Lane 1: A549 Lane 2: MCF-7 Lane 3: HCT116.

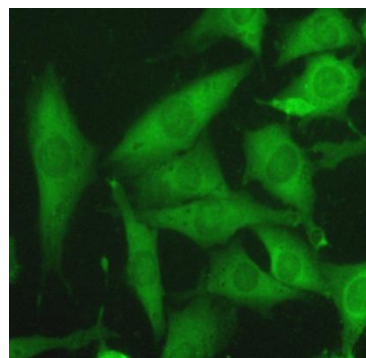


Fig. 2. Immunocytochemistry staining HSP70 in SHG-44 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X-100/PBS.

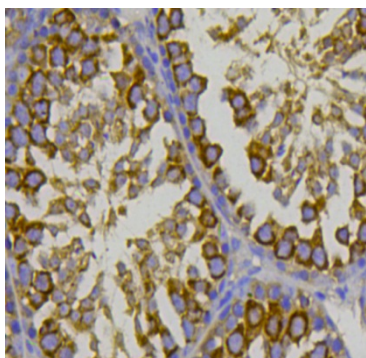


Fig. 3. Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-HSP70 antibody. Counter stained with hematoxylin.

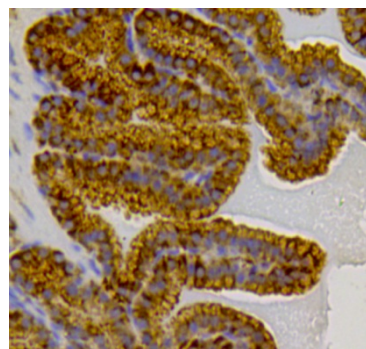


Fig. 4. Immunohistochemical analysis of paraffin-embedded mouse prostate tissue using anti-HSP70 antibody. Counter stained with hematoxylin.

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. Zhou D, Liu W, Liang S, Sun B, Liu A, Cui Z, Han X, Yuan L . Apoptin-derived peptide reverses cisplatin resistance in gastric cancer through the PI3K-AKT signaling pathway. CANCER MED-US. 2018 Apr;7(4):1369-1383.
2. Tang SL, Zhao ZW, Liu SM, Wang G, Yu XH, Zou J, Wang SQ, Dai XY, Fu MG, Zheng XL, Zhang DW, Fu H, Tang CK . Pregnancy-Associated Plasma Protein-A Accelerates Atherosclerosis by Regulating Reverse Cholesterol Transport and Inflammation. Circ J. 2019 Feb 25 83(3):515-523.

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