



碧云天生物技术/Beyotime Biotechnology  
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## RAB5A Rabbit Polyclonal Antibody (KO Validated)

| 产品编号   | 产品名称  | 包装   |
|--------|---|------|
| AF5282 | RAB5A Rabbit Polyclonal Antibody (KO Validated) | 50µl |

### 产品简介:

| 来源     | 用途     | 交叉反应性   | 理论分子量    | 实际分子量 |
|--------|--------|---------|----------|-------|
| Rabbit | WB, IF | H, M, R | 22/23kDa | 22kDa |

WB, Western blot; IP, Immunoprecipitation; IF, Immunofluorescence; IHC, Immunohistochemistry; ICC, Immunocytochemistry; FC, Flow Cytometry; ChIP, Chromatin Immunoprecipitation Assay; ChIP-seq, ChIP-sequencing.

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 | ChIP | ChIP-seq |
|--------------|----|------------|-----|-----|----|------|----------|
| 1:500-1:2000 | -  | 1:50-1:200 | -   | -   | -  | -    | -        |

- 抗体详细信息如下:

| About this Antibody |  |
|---------------------|--|
| Name                | RAB5A Rabbit Polyclonal Antibody (KO Validated)  |
| Category            | Rabbit Polyclonal Antibody (pAb); Primary antibody   |
| Isotype             | IgG  |
| Purification method | Affinity purification  |
| Positive samples    | HeLa, PC-12, Mouse brain   |
| Cellular location   | Cell membrane, Cell projection, Cytoplasm, Cytoplasmic side, Cytoplasmic vesicle, Early endosome membrane, Lipid-anchor, Melanosome, Membrane, cytosol, ruffle   |
| Customer validation | -  |
| About the Immunogen |  |
| Immunogen           | Recombinant fusion protein of human RAB5A (NP_004153.2).   |
| Sequence            | MASRGATRPNGPNTGNKICQFKLVLLGESAVGKSSLVLRVFKGQFHEFQESTIGAAFLTQTVCLD<br>DTTVKFEIWDTAGQERYHSLAPMYRGAQAAIVVYDITNEESFARAKNWVKELQRQASPNIVIAL<br>SGNKADLANKRAVDFQEAQSYADDNSLLFMETSAKTSMNVNEIFMAIAKKLKPNPQNPANGSA<br>RGRGVDLTEPTQPTRNQCCSN  |
| Gene ID             | 5868   |
| Swiss Prot          | P20339   |
| Synonyms            | RAB5A; RAB5; ras-related protein Rab-5A  |
| Category            | Cytoskeletal Signaling   |
| Background          | Rab5/RAB5A is a member of the Ras superfamily of small Rab GTPases. Rab5 is localized at the plasma membrane and early endosomes and functions as a key regulator of vesicular trafficking during early endocytosis. The conformational change between Rab5 GTP/GDP states is essential for its biological function as a rate limiting regulator at multiple steps during endocytosis. Rab5 exerts its function by interacting with several Rab5-specific effectors. These proteins form complexes with Rab5 on a specialized Rab domain of the endosome and promote recycling of Rab5-cargo targets between endosome and the plasma membrane. |

## 包装清单:

| 产品编号   | 产品名称  | 包装         |
|--------|---|------------|
| AF5282 | RAB5A Rabbit Polyclonal Antibody (KO Validated) | 50 $\mu$ l |
| AZ050  | Western一抗稀释液                                    | 50ml       |
| —      | 说明书   | 1份         |

## 保存条件:

RAB5A Rabbit Polyclonal Antibody (KO Validated) -20 $^{\circ}$ C保存, Western一抗稀释液-20 $^{\circ}$ C或4 $^{\circ}$ C保存, 一年有效。Western一抗稀释液优先推荐4 $^{\circ}$ C保存, 长期不使用可以考虑-20 $^{\circ}$ 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 $^{\circ}$ 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 $^{\circ}$ 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 $^{\circ}$ 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:

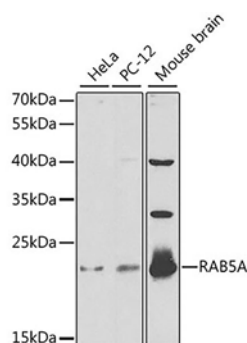


Fig. 1. Western blot analysis of extracts of various cell lines, using RAB5A antibody at 1:1000 dilution. Secondary antibody: HRP-labeled Goat Anti-Rabbit IgG(H+L) (A0208) at 1:1000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: QuickBlock™ Blocking Buffer (P0231).

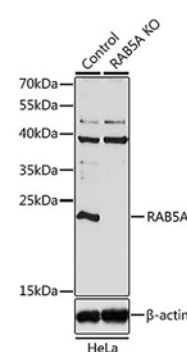


Fig. 2. Western blot analysis of extracts from normal (control) and RAB5A knockout (KO) HeLa cells, using RAB5A antibody at 1:1000 dilution. Secondary antibody: HRP-labeled Goat Anti-Rabbit IgG(H+L) (A0208) at 1:1000 dilution. Lysates/proteins: 25 $\mu$ g per lane. Blocking buffer: QuickBlock™ Blocking Buffer (P0231). Detection: BeyoECL Star (P0018A). Exposure time:1s.

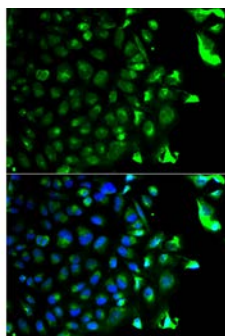


Fig. 3. Immunofluorescence analysis of HeLa cells using RAB5A antibody. Blue: DAPI for nuclear staining.

相关产品:

| 产品编号          | 产品名称                              | 包装          |
|---------------|-----------------------------------|-------------|
| E6001         | MiniProGel™蛋白制胶与电泳系统(4胶)          | 1套          |
| E6005         | MiniProGel™蛋白制胶与电泳系统(2胶)          | 1套          |
| E6050         | MiniBlot™蛋白转膜系统                   | 1套          |
| E6150         | MiniProGel™蛋白制胶、电泳与转膜系统(2胶/2膜)    | 1套          |
| E6155         | MiniProGel™蛋白制胶、电泳与转膜系统(4胶/2膜)    | 1套          |
| E6159         | MiniProGel™蛋白制胶、电泳与转膜系统(4胶/4膜)    | 1套          |
| E6080         | BeyoPower™中电流电源(300V/600mA/100W)  | 1套          |
| E6085         | BeyoPower™高电流电源(300V/2000mA/200W) | 1套          |
| E6600         | TissueMaster™手持式组织研磨仪             | 1套          |
| EI600         | BeyoImager™ 600化学发光成像系统           | 1套          |
| FFP24         | PVDF膜(进口分装, 6.6×8.5cm, 0.2μm)     | 20张/包装      |
| FFP32         | PVDF膜(进口分装, 6.6×8.5cm, 0.45μm)    | 20张/包装      |
| FFP51         | 转印滤纸(7.5×10cm)                    | 100张/包装     |
| FFX050-FFX055 | Western洗膜盒                        | 1个/包装       |
| P0006         | Bradford蛋白浓度测定试剂盒                 | 1000次       |
| P0012         | BCA蛋白浓度测定试剂盒                      | 500次        |
| P0012A        | SDS-PAGE凝胶配制试剂盒                   | 可制30-50块胶   |
| P0012AC       | SDS-PAGE凝胶快速配制试剂盒                 | 可制30-50块胶   |
| P0013         | Western及IP细胞裂解液                   | 100ml       |
| P0013B-P0013D | RIPA裂解液(强、中、弱)                    | 100ml       |
| P0014A/P0014B | SDS-PAGE电泳液(Tris-Gly, Powder)     | 1L/10L      |
| P0014C/P0014D | SDS-PAGE电泳液(Tris-Gly, 10X)        | 100ml/500ml |
| P0015/P0015L  | SDS-PAGE蛋白上样缓冲液(5X)               | 2ml/15ml    |
| P0015F        | SDS-PAGE蛋白上样缓冲液(6X)               | 2ml         |
| P0017F        | BeyoBlue™考马斯亮蓝超快染色液               | 250ml       |
| P0018A        | BeyoECL Star (特超敏ECL化学发光试剂盒)      | 100ml/500ml |
| P0018F        | BeyoECL Moon (极超敏ECL化学发光试剂盒)      | 100ml/500ml |
| P0018S/P0018M | BeyoECL Plus (超敏ECL化学发光试剂盒)       | 100ml/500ml |
| P0021A        | Western转膜液                        | 1L          |
| P0021S        | PVDF膜浸润活化液                        | 250ml       |
| P0022         | 丽春红染色液                            | 120ml       |
| P0023A        | Western一抗稀释液                      | 100ml/500ml |
| P0023B        | Western封闭液                        | 100ml/500ml |
| P0023C        | Western洗涤液                        | 250ml       |
| P0023D        | Western二抗稀释液                      | 100ml/500ml |
| P0025         | Western一抗二抗去除液                    | 250ml       |

|             |  |                  |
|-------------|--|------------------|
| P0059       | Recombinant 16-Tag Protein               | 200µl/1ml        |
| P0066       | 预染蛋白质分子量标准(19-117kD)                     | 200µl            |
| P0068       | 彩色预染蛋白质分子量标准(10-180kD)                   | 200µl            |
| P0071       | BeyoColor™彩色预染蛋白分子量标准(6.5-270kD)         | 200µl            |
| P0075       | BeyoColor™彩色预染蛋白分子量标准(10-170kD)          | 200µl            |
| P0078       | BeyoColor™彩色预染蛋白分子量标准(15-120kD)          | 200µl            |
| P0095       | 免疫染色通透液(Saponin)                         | 100ml/500ml      |
| P0096       | 免疫染色通透液(Triton X-100)                    | 100ml/500ml      |
| P0097       | 免疫染色强力通透液                                | 100ml/500ml      |
| P0098       | 免疫染色固定液                                  | 100ml/500ml      |
| P0099       | 4%多聚甲醛固定液                                | 100ml/500ml      |
| P0102       | 免疫染色封闭液                                  | 100ml            |
| P0103       | 免疫染色一抗稀释液                                | 100ml            |
| P0106       | 免疫染色洗涤液                                  | 250ml            |
| P0108       | 免疫荧光染色二抗稀释液                              | 100ml            |
| P0220-P0235 | Quickblock™封闭液                           | 100ml            |
| P0252       | QuickBlock™ Western封闭液                   | 100ml/500ml      |
| P0256       | QuickBlock™ Western一抗稀释液                 | 100ml/500ml      |
| P0258       | QuickBlock™ Western二抗稀释液                 | 100ml/500ml      |
| 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            |
| P0280       | InstantView™ SDS-PAGE蛋白染色及上样缓冲液(5X)      | 1ml              |
| P0050-P0058 | BeyoGel™ SDS-PAGE预制胶(Tris-Gly, 12孔)      | 10块/50块          |
| P0448-P0472 | BeyoGel™ Plus PAGE预制胶(Tris-Gly, 10孔/15孔) | 10块/50块          |
| P0501-P0528 | BeyoGel™ Plus PAGE预制胶(Hepes, 10孔/15孔)    | 10块/50块          |
| P0552       | BeyoGel™ Plus SDS-PAGE Hepes电泳液(20X)     | 100ml/500ml      |
| P0670-P0678 | SDS-PAGE下层胶预混液                           | 250ml/500ml      |
| P0683       | SDS-PAGE上层胶预混液                           | 250ml/500ml      |
| P0686-P0695 | SDS-PAGE凝胶超快速配制试剂盒                       | 可制30-50块胶        |
| P1005-P1031 | 蛋白酶抑制剂混合物(50X/100X)                      | 1ml/5ml          |
| P1045-P1066 | 蛋白酶磷酸酶抑制剂混合物(50X)                        | 1ml/2ml/5ml/10ml |
| P1081-P1097 | 磷酸酶抑制剂混合物(50X)                           | 2ml/10ml         |
| P1112/P1113 | 去乙酰化酶抑制剂混合物(100X)                        | 1ml/5ml          |
| R0121       | AllProtect™动物组织核酸、蛋白稳定保存液                | 25ml/100ml       |

Version 2019.09.27