

Anti-RHOG antibody [1F3-RHOG] ab254147

敲除验证
重组

[1 References](#)
[8 图像](#)

概述

产品名称	Anti-RHOG抗体[1F3-RHOG]
描述	小鼠单克隆抗体[1F3-RHOG] to RHOG
宿主	Mouse
经测试应用	适用于: WB, IP, ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Jurkat, MDA-MB-231, K562, J774A.1 and PC-12 whole cell lysate. Mouse bone marrow tissue lysate. Rat thymus tissue lysate. ICC/IF: Jurkat and J774A.1 cells. IP: Jurkat and J774A.1 whole cell lysates.
常规说明	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	1F3-RHOG

同种型IgG2b

应用

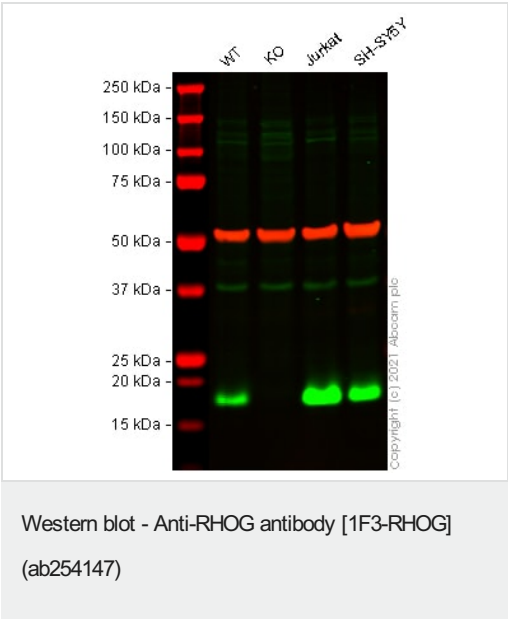
The Abpromise guarantee **Abpromise™**承诺保证使用ab254147于以下的经测试应用
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000. Detects a band of approximately 18 kDa (predicted molecular weight: 21 kDa).
IP		1/30.
ICC/IF		1/50.

靶标

功能	Required for the formation of membrane ruffles during macropinocytosis. Required for the formation of cup-like structures during trans-endothelial migration of leukocytes. In case of Salmonella enterica infection, activated by SopB and ARHGEF26/SGEF, which induces cytoskeleton rearrangements and promotes bacterial entry.
序列相似性	Belongs to the small GTPase superfamily. Rho family.
细胞定位	Cell membrane.

图片



All lanes : Anti-RHOG antibody [1F3-RHOG] (ab254147) at 1/1000 dilution

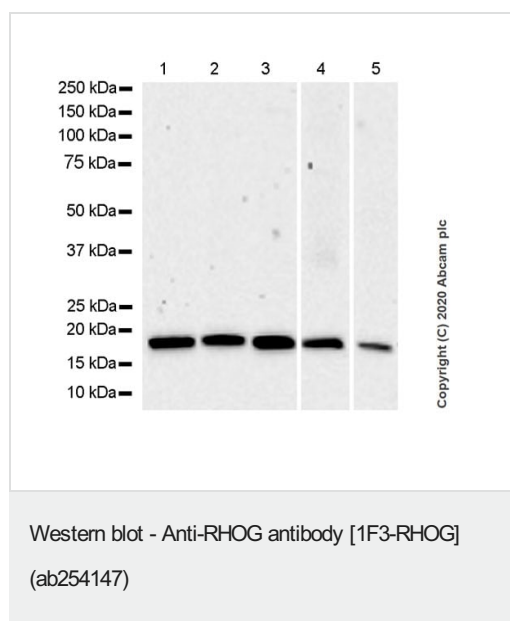
- Lane 1 :** Wild-type HEK-293T cell lysate
- Lane 2 :** RHOG knockout HEK-293T cell lysate
- Lane 3 :** Jurkat cell lysate
- Lane 4 :** SH-SY5Y cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 21 kDa
Observed band size: 18 kDa

False colour image of Western blot: Anti-RHOG antibody [1F3-RHOG] staining at 1/1000 dilution, shown in green; Rabbit anti-alpha Tubulin antibody [EP1332Y] ([ab52866](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab254147 was shown to bind specifically to RHOG. A band was observed at 18 kDa in wild-type HEK-293T cell lysates with no signal observed at this size in RHOG knockout cell line [ab266753](#) (knockout cell lysate [ab263328](#)). To generate this image, wild-type and RHOG knockout HEK-293T cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Mouse IgG H&L (IRDye[®] 800CW) preabsorbed ([ab216772](#)) and Goat anti-Rabbit IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216777](#)) at 1/20000 dilution.



All lanes : Anti-RHOG antibody [1F3-RHOG] (ab254147) at 1/1000 dilution

Lane 1 : Jurkat (human T cell leukemia T lymphocyte), whole cell lysate

Lane 2 : MDA-MB-231 (human breast adenocarcinoma epithelial cell), whole cell lysate

Lane 3 : K562 (human chronic myelogenous leukemia lymphoblast), whole cell lysate

Lane 4 : J774A.1 (mouse reticulum cell sarcoma monocyte macrophage), whole cell lysate

Lane 5 : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

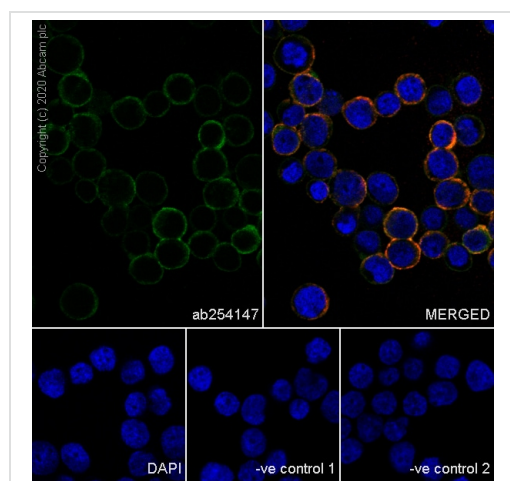
Predicted band size: 21 kDa

Observed band size: 18 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The expression molecular weight observed is consistent with what has been described in the literature (PMID:18505794).

Exposure time: 3 minutes.

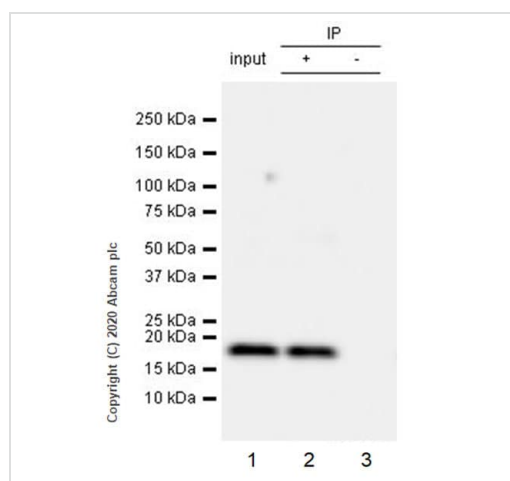


Immunocytochemistry/ Immunofluorescence - Anti-RHOG antibody [1F3-RHOG] (ab254147)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Jurkat cells labelling RHOG with ab254147 at 1/50 dilution, followed by **ab150113** goat anti-mouse IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in Jurkat cells. **ab179513** anti-beta Tubulin rabbit monoclonal antibody at a 1/200 dilution, followed by **ab150080** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at a 1/500 dilution was used to counterstain tubulin (Red). The nuclear counterstain was DAPI (Blue).

Negative control 1: ab254147 at a 1/50 dilution followed by **ab150080** at a 1/500 dilution.

Negative control 2: **ab179513** at a 1/200 dilution followed by **ab150113** at a 1/1000 dilution.



Immunoprecipitation - Anti-RHOG antibody [1F3-RHOG] (ab254147)

RHOG was immunoprecipitated from 0.35 mg Jurkat (human T cell leukemia T lymphocyte), whole cell lysate with ab254147 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab254147 at 1/1000 dilution. Mouse IgG for IP (HRP) (**ab131368**) was used at 1/1000 dilution.

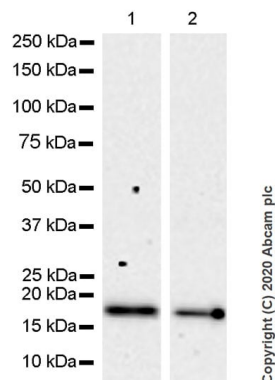
Lane 1: Jurkat whole cell lysate 10µg.

Lane 2: ab254147 IP in Jurkat whole cell lysate.

Lane 3: Mouse monoclonal IgG2b instead of ab254147 in Jurkat whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.



Western blot - Anti-RHOG antibody [1F3-RHOG]
(ab254147)

All lanes : Anti-RHOG antibody [1F3-RHOG] (ab254147) at 1/1000 dilution

Lane 1 : Mouse bone marrow tissue lysate

Lane 2 : Rat thymus tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

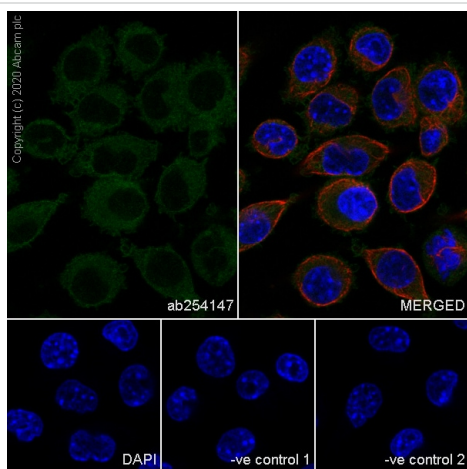
All lanes : Peroxidase-Conjugated Goat anti-Mouse IgG (H+L) at 1/10000 dilution

Predicted band size: 21 kDa

Observed band size: 18 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 minutes.

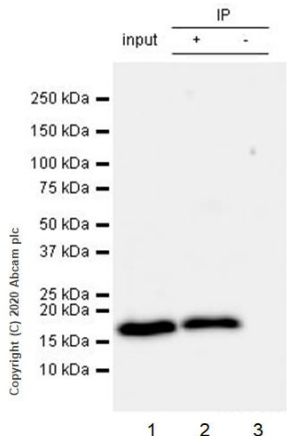


Immunocytochemistry/ Immunofluorescence - Anti-RHOG antibody [1F3-RHOG] (ab254147)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized J774A.1 cells labelling RHOG with ab254147 at 1/50 dilution, followed by **ab150113** goat anti-mouse IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in J774A.1 cells. **ab179513** anti-beta Tubulin rabbit monoclonal antibody at a 1/200 dilution, followed by **ab150080** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at a 1/500 dilution was used to counterstain tubulin (Red). The nuclear counterstain was DAPI (Blue).

Negative control 1: ab254147 at a 1/50 dilution followed by **ab150080** at a 1/500 dilution.

Negative control 2: **ab179513** at a 1/200 dilution followed by **ab150113** at a 1/1000 dilution.



Immunoprecipitation - Anti-RHOG antibody [1F3-RHOG] (ab254147)

RHOG was immunoprecipitated from 0.35 mg J774A.1 (mouse reticulum cell sarcoma monocyte macrophage), whole cell lysate with ab254147 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab254147 at 1/1000 dilution. Mouse IgG for IP (HRP) (**ab131368**) was used at 1/1000 dilution.

Lane 1: J774A.1 whole cell lysate 10µg.

Lane 2: ab254147 IP in J774A.1 whole cell lysate.

Lane 3: Mouse monoclonal IgG2b instead of ab254147 in J774A.1 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 10 seconds.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-RHOG antibody [1F3-RHOG] (ab254147)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors