

# Anti-GEF H1 (phospho S885) antibody ab74156

[3 References](#) [1 图像](#)

### 概述

<b>产品名称</b>	Anti-GEF H1 (phospho S885)抗体
<b>描述</b>	兔多克隆抗体to GEF H1 (phospho S885)
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> WB
<b>种属反应性</b>	<b>与反应:</b> Human <b>预测可用于:</b> Mouse 
<b>免疫原</b>	Synthetic peptide corresponding to Human GEF H1 (phospho S885). <a href="#">Run BLAST with ExpASY</a> <a href="#">Run BLAST with NCBI</a>
<b>阳性对照</b>	Extracts from HeLa cells treated with TSA (400nM, 24hours) and Jurkat cells treated with forskolin (40nM, 30mins).
<b>常规说明</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>存储溶液</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, PBS  Without Mg <sup>2+</sup> and Ca <sup>2+</sup>
<b>纯度</b>	Immunogen affinity purified
<b>纯化说明</b>	ab74156 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

克隆 多克隆  
同种型 IgG

## 应用

**The Abpromise guarantee** **Abpromise™**承诺保证使用ab74156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		1/500 - 1/1000. Predicted molecular weight: 120 kDa.

## 靶标

**功能** Activates Rho-GTPases by promoting the exchange of GDP for GTP. May be involved in epithelial barrier permeability, cell motility and polarization, dendritic spine morphology, antigen presentation, leukemic cell differentiation, cell cycle regulation, and cancer. Binds Rac-GTPases, but does not seem to promote nucleotide exchange activity toward Rac-GTPases, which was uniquely reported in PubMed:9857026. May stimulate instead the cortical activity of Rac. Inactive toward CDC42, TC10, or Ras-GTPases. Forms an intracellular sensing system along with NOD1 for the detection of microbial effectors during cell invasion by pathogens. Required for RHOA and RIP2 dependent NF-kappaB signaling pathways activation upon *S.flexneri* cell invasion. Involved not only in sensing peptidoglycan (PGN)-derived muropeptides through NOD1 that is independent of its GEF activity, but also in the activation of NF-kappaB by *Shigella* effector proteins (IpgB2 and OspB) which requires its GEF activity and the activation of RhoA.

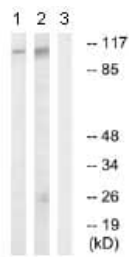
**序列相似性** Contains 1 DH (DBL-homology) domain.  
Contains 1 PH domain.  
Contains 1 phorbol-ester/DAG-type zinc finger.

**结构域** The DH (DBL-homology) domain interacts with and promotes loading of GTP on RhoA. The PH (pleckstrin-homology) domain is involved in microtubule binding and targeting to tight junctions.

**翻译后修饰** Phosphorylation of Ser-886 by PAK1 induces binding to protein 14-3-3 zeta, promoting its relocation to microtubules and the inhibition of its activity. Phosphorylated by STK6 and CDK1 during mitosis, which negatively regulates its activity. Phosphorylation by MAPK1 or MAPK3 increases nucleotide exchange activity. Phosphorylation by PAK4 releases GEF-H1 from the microtubules.

**细胞定位** Cytoplasm. Cell junction > tight junction. Golgi apparatus. Cytoplasm > cytoskeleton > spindle. Cell projection > ruffle membrane. Localizes to the tips of cortical microtubules of the mitotic spindle during cell division, and is further released upon microtubule depolymerization. Recruited into membrane ruffles induced by *S.flexneri* at tight junctions of polarized epithelial cells.

## 图片



Western blot - Anti-GEF H1 (phospho S885) antibody (ab74156)

**All lanes :** Anti-GEF H1 (phospho S885) antibody (ab74156) at 1/500 dilution

**Lane 1 :** Extracts from HeLa cells treated with TSA (400nM, 24hours)

**Lane 2 :** Extracts from Jurkat cells treated with forskolin (40nM, 30mins)

**Lane 3 :** Extracts from HeLa cells treated with TSA (400nM, 24hours) with immunising phosphopeptide at 10 µg

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 120 kDa

**Observed band size:** 115 kDa

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