abcam

Product datasheet

Anti-GATA2 antibody [EPR2822(2)] ab109241

敲除验证 重组 RabMAb

1 Abreviews 10 References 6 图像

概述

产品名称	Anti-GATA2抗体[EPR2822(2)]
描述	兔单克隆抗体[EPR2822(2)] to GATA2
宿主	Rabbit
经测试应用	**适用于:** ChIP, WB, IP
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: bEnd.3, PC-12, HEK-293, and K562 whole cell lysates. Mouse placenta lysate; IP: K-562 whole cell lysate.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR2822(2)
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab109241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
ChIP		Use at an assay dependent concentration.
WB		1/1000. Predicted molecular weight: 51 kDa. **For unpurified use at 1/1000 - 1/10000.**
IP		1/30. **For unpurified use at 1/10 - 1/100.**

靶标

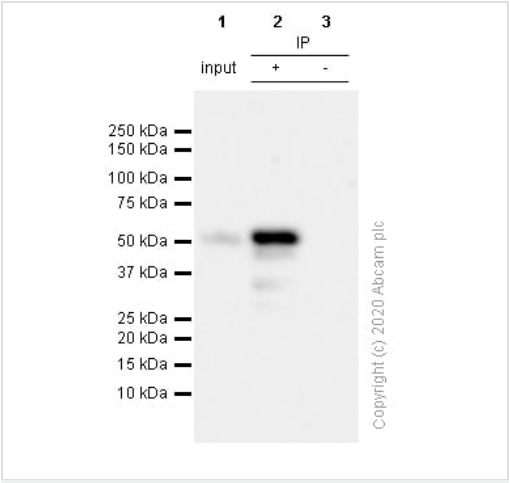
功能 Transcriptional activator which regulates endothelin-1 gene expression in endothelial cells. Binds to the consensus sequence 5'-AGATAG-3'.

组织特异性 Endothelial cells.

序列相似性 Contains 2 GATA-type zinc fingers.

细胞定位 Nucleus.

图片



Immunoprecipitation - Anti-GATA2 antibody [EPR2822(2)] (ab109241)

GATA2 was immunoprecipitated from 0.35 mg K-562 (Human chronic myelogenous leukemia lymphoblast) cell lysate 10 µg with ab109241 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab109241 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

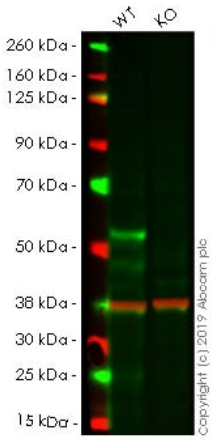
Lane 1: K-562 (Human chronic myelogenous leukemia lymphoblast) cell lysate 10 µg

Lane 2: ab109241 IP in K-562 cell lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab109241 in K562 cell lysate

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

Exposure time: 8 seconds



Western blot - Anti-GATA2 antibody [EPR2822(2)] (ab109241)

All lanes : Anti-GATA2 antibody [EPR2822(2)] (ab109241) at 1 µg/ml

Lane 1 : Wild-type HEK-293 whole cell lysate
Lane 2 : GATA2 knockout HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate

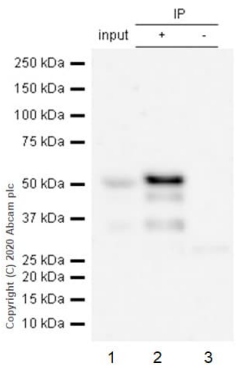
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 51 kDa

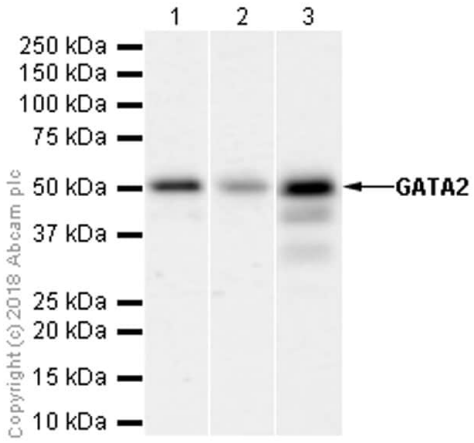
Lanes 1 - 2: Merged signal (red and green). Green - ab109241 observed at 50 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab109241 was shown to recognize GATA2 in wild-type HEK-293 cells as signal was lost at the expected MW in GATA2 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and GATA2 knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% Milk. Ab109241 and **ab8245** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunoprecipitation - Anti-GATA2 antibody [EPR2822(2)] (ab109241)

Purified ab109241 at 1/30 dilution (2 µg) immunoprecipitating GATA2 in K-562 whole cell lysate.
Lane 1 (input): K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate 10 µg
Lane 2 (+): ab109241 + K-562 whole cell lysate.
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab109241 in K-562 whole cell lysate.
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 51 kDa



Western blot - Anti-GATA2 antibody [EPR2822(2)] (ab109241)

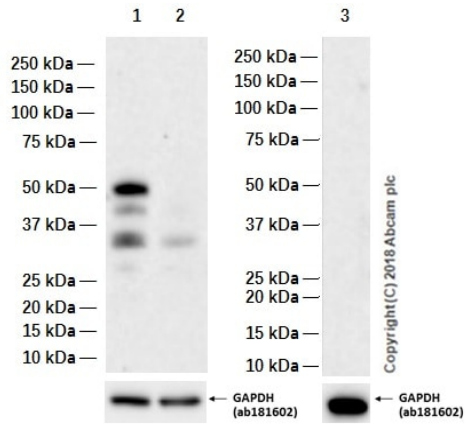
All lanes : Anti-GATA2 antibody [EPR2822(2)] (ab109241) at 1/1000 dilution (purified)

Lane 1 : bEnd.3 (Mouse brain endothelioma) whole cell lysate
Lane 2 : Mouse placenta lysate
Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 51 kDa
Observed band size: 51 kDa



Western blot - Anti-GATA2 antibody [EPR2822(2)] (ab109241)

All lanes : Anti-GATA2 antibody [EPR2822(2)] (ab109241) at 1/1000 dilution

Lane 1 : K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate prepared using 1% SDS hot lysis method
Lane 2 : K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate prepared using RIPA lysis method
Lane 3 : U-937 (Human histiocytic lymphoma monocyte) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

Predicted band size: 51 kDa

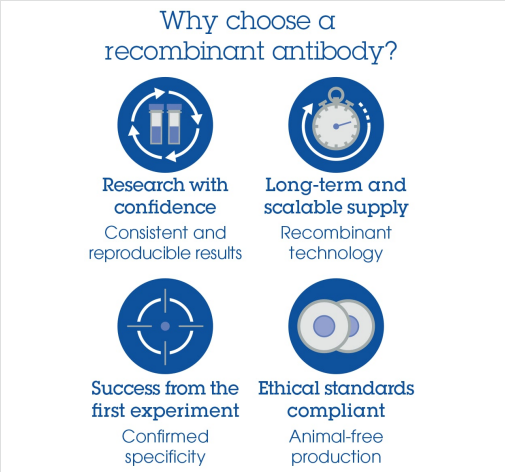
Exposure time: 3 minutes

Blocking and diluting buffer: 5% NFDM/TBST.

The different result in K-562 is due to the lysates preparation method.

For Lysate preparation protocol, please refer to the protocol book in the protocol section and/or **here (downloadable copy).**

The expression profile observed in U-937 is consistent with the literature (PMID: 19212333).
Negative control: U-937 (PMID: 19212333)



Anti-GATA2 antibody [EPR2822(2)] (ab109241)

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