

Product datasheet

Anti-GATA4 antibody ab84593

★★★★★ 11 Abreviews 29 References 4 图像

概述

产品名称	Anti-GATA4抗体
描述	兔多克隆抗体to GATA4
宿主	Rabbit
经测试应用	适用于: IHC-P, ICC/IF, IHC-Fr, WB
种属反应性	与反应: Mouse, Rat, Human, Rhesus monkey 预测可用于: Dog, Pig ▲
免疫原	Synthetic peptide corresponding to Human GATA4 aa 100-200 conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab94555</a> )
阳性对照	This antibody gave a positive signal in the following whole cell lysates: HeLa; Jurkat; HepG2; HEK293; Caco 2.

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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab84593** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
IHC-P	★★★★☆	Use at an assay dependent concentration.
ICC/IF	★★★★★	Use at an assay dependent concentration.
IHC-Fr	★★★★☆	1/50.
WB	★★★★☆	Use a concentration of 1 µg/ml. Detects a band of approximately 44 kDa (predicted molecular weight: 44 kDa).

## 靶标

**功能** Transcriptional activator that binds to the consensus sequence 5'-AGATAG-3' and plays a key role in cardiac development (PubMed:24000169). Involved in bone morphogenetic protein (BMP)-mediated induction of cardiac-specific gene expression (By similarity). Binds to BMP response element (BMPRE) DNA sequences within cardiac activating regions (By similarity). Acts as a transcriptional activator of ANF in cooperation with NKX2-5 (By similarity). Promotes cardiac myocyte enlargement (PubMed:20081228). Required during testicular development (PubMed:21220346). May play a role in sphingolipid signaling by regulating the expression of sphingosine-1-phosphate degrading enzyme, sphingosine-1-phosphate lyase (PubMed:15734735).

## 疾病相关

Atrial septal defect 2  
 Ventricular septal defect 1  
 Tetralogy of Fallot  
 Atrioventricular septal defect 4  
 Testicular anomalies with or without congenital heart disease  
 GATA4 mutations can predispose to dilated cardiomyopathy (CMD), a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.

## 序列相似性

Contains 2 GATA-type zinc fingers.

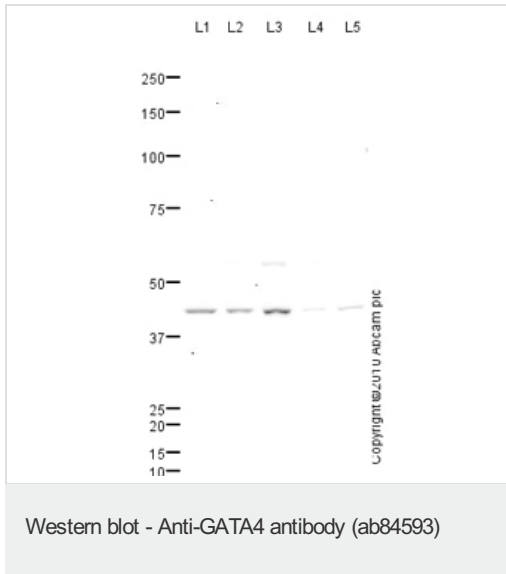
## 翻译后修饰

Methylation at Lys-300 attenuates transcriptional activity.

## 细胞定位

Nucleus.

## 图片



**All lanes :** Anti-GATA4 antibody (ab84593) at 1 µg/ml

**Lane 1 :** HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

**Lane 2 :** Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

**Lane 3 :** HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

**Lane 4 :** HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

**Lane 5 :** Caco 2 (Human colonic carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

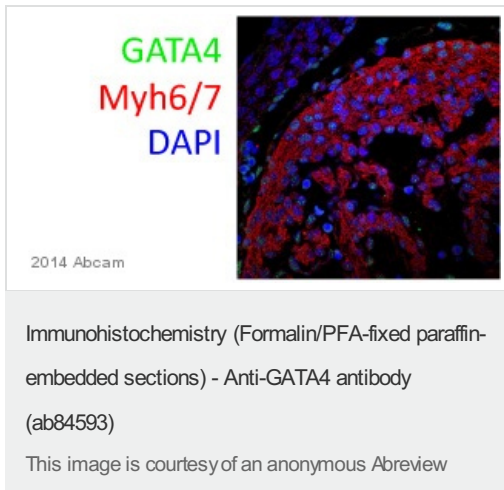
Performed under reducing conditions.

**Predicted band size:** 44 kDa

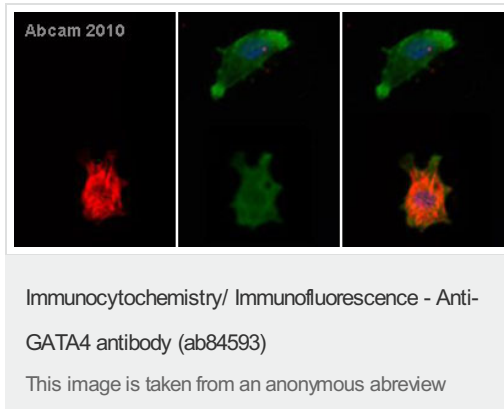
**Observed band size:** 44 kDa

**Additional bands at:** 55 kDa. We are unsure as to the identity of these extra bands.

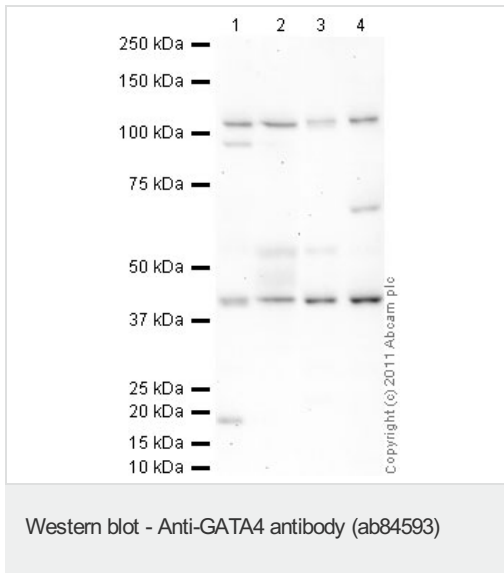
**Exposure time:** 12 minutes



ab84593 staining GATA4 (green) in mouse embryo tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde, permeabilized in 1% Triton X-100 and blocked with 10% goat serum for 1 hour at room temperature; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/50 in 10% goat serum) for 16 hours at 4°C. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG polyclonal (1/400) was used as the secondary antibody. Red - Myh6/7, Blue - DAPI.



Immunofluorescence image of Gata4 (ab84593) on human embryonic stem cell derived cardiomyocytes. The cells were fixed in methanol and permeabilized in 0.1% Triton-X-100. In this image you can see a cardiomyocyte stained in red with a cardiac alpha actinin antibody and both the cardiomyocyte and a fibroblast stained in green with ab84593.



**All lanes :** Anti-GATA4 antibody (ab84593) at 1 µg/ml

**Lane 1 :** Human heart tissue lysate - total protein (ab29431)

**Lane 2 :** Human Fetal Heart - Total Protein Tissue Lysate

**Lane 3 :** Heart (Mouse) Tissue Lysate

**Lane 4 :** Heart (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

**Predicted band size:** 44 kDa

**Observed band size:** 44 kDa

**Additional bands at:** 110 kDa. We are unsure as to the identity of these extra bands.

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

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