

Product datasheet

Anti-GATA4 antibody [EPR4768] (HRP) ab194073

Recombinant RabMAb

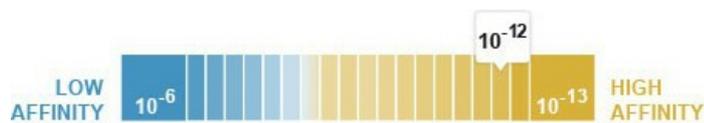
1 Image

Overview

<b>Product name</b>	Anti-GATA4 antibody [EPR4768] (HRP)
<b>Description</b>	Rabbit monoclonal [EPR4768] to GATA4 (HRP)
<b>Host species</b>	Rabbit
<b>Conjugation</b>	HRP
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat ▲
<b>Immunogen</b>	Synthetic peptide within Human GATA4 (N terminal). The exact sequence is proprietary.
<b>Positive control</b>	WB: HepG2 whole cell lysates.
<b>General notes</b>	<p>This antibody was developed as part of a collaboration between Dartmouth College and the lab of Sergei Tevosian.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. Store In the Dark.
<b>Dissociation constant (K<sub>D</sub>)</b>	K <sub>D</sub> = 2.00 x 10 <sup>-12</sup> M



<b>Storage buffer</b>	pH: 7.40 Preservative: 0.1% Proclin Constituents: PBS, 30% Glycerol, 1% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR4768
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab194073** in the following tested applications.

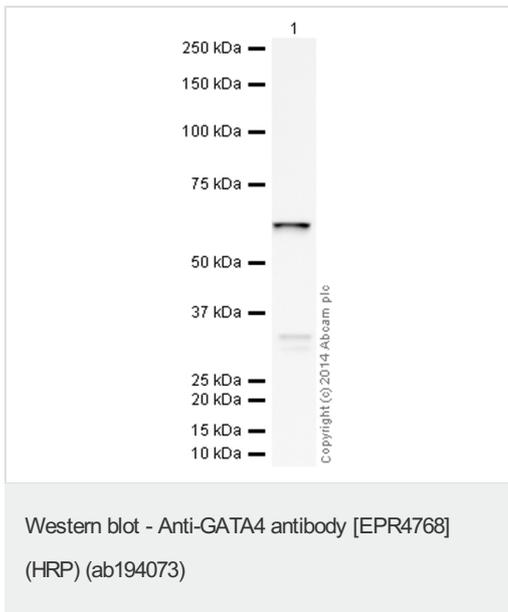
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).

## Target

<b>Function</b>	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).
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Contains 2 GATA-type zinc fingers.
<b>Post-translational modifications</b>	Methylation at Lys-300 attenuates transcriptional activity.
<b>Cellular localization</b>	Nucleus.

## Images



Anti-GATA4 antibody [EPR4768] (HRP) (ab194073) at 1/5000 dilution + HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate at 10 µg

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 54 kDa

**Observed band size:** 54 kDa

**Exposure time:** 20 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab194073 overnight at 4°C. Antibody binding was visualised using ECL development solution [ab133406](#).

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

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