

## PRODUCT INFORMATION

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**Product name :** GATA4 antibody

**Product type :** Primary antibodies

**Description :** Rabbit polyclonal to GATA4

**Immunogen :** 3 synthetic peptides (human) conjugated to KLH

**Reacts with :** Human, Mouse

**Tested applications :** ELISA, WB and IF

## GENE INFORMATION

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**Gene Symbol :** GATA4

**Gene Name :** GATA binding protein 4

**Ensembl ID :** ENSG00000136574

**Entrez GeneID :** 2626

**GenBank Accession number :** AK097060

**Omim ID :** 600576

**Swiss-Prot :** P43694

**Molecular weight of GATA4 :** 44.5kDa

**Function :** Transcriptional activator. Binds to the consensus sequence 5'-AGATAG-3'. Acts as a transcriptional activator of ANF in cooperation with NKX2-5

**Expected subcellular localization :** Nucleus

**Summary :** This gene encodes a member of the GATA family of zinc-finger transcription factors. Members of this family recognize the GATA motif which is present in the promoters of many genes. This protein is thought to regulate genes involved in embryogenesis and in myocardial differentiation and function. Mutations in this gene have been associated with cardiac septal defects. [provided by RefSeq, Jul 2008]

## **APPLICATION NOTE**

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### **Recommended dilution :**

- **ELISA:** Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A minimum titer of 1/10000 is determined. Appropriate specificity controls were run.
- **WB:** 1/5000.
- **IF:** 1/500.

**Optimal dilutions/concentration should be determined by the end user.**

**Raised in :** Rabbit

**Clonality :** Polyclonal

**Isotype :** IgG

**Purity :** Purified Antibody

**Storage buffer :** 0.5 X PBS, 50% glycerol containing a final concentration of 0.1% BSA and 0.01% Thimerosal.

**Form :** Liquid

**Storage instruction :** Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

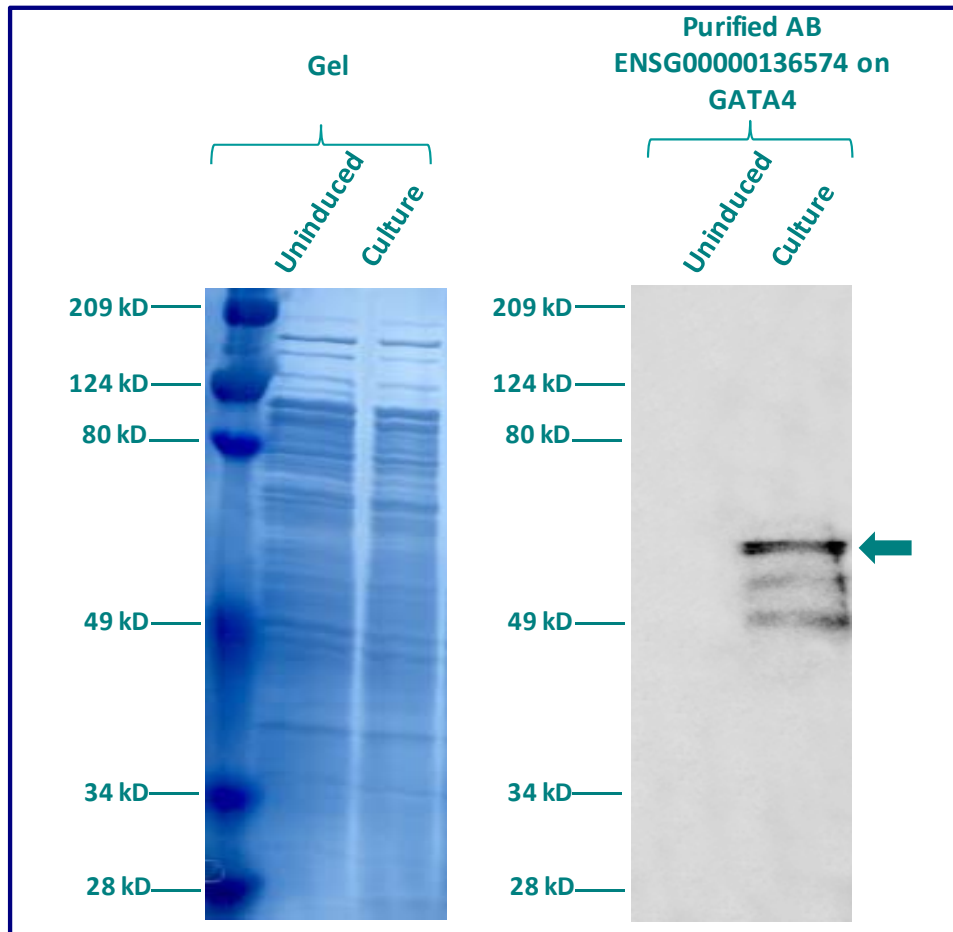
## WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000136574 has tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

An anti-thio has been tested at 1/5000 on induced culture of E.coli (one shot Top10 competent cells) as a positive control.

Plasmid name : pBAD-DEST49.

Molecular weight of GATA4 : 58.6kDa (44.6kDa + another 14kDa for the tag).



**Gel concentration: 10%**

**Blocking: in 5% non-fat milk-PBST solution**

**1<sup>st</sup> Antibody: The antibodies are diluted in blocking buffer.**

- Dilute the purified antibody ENSG00000136574 at 1: 5000
- Dilute the anti-thio at 1:5000

**60 minutes of incubation**

**2<sup>nd</sup> Antibody: The antibody is diluted in blocking buffer.**

- Dilute the anti-Rabbit IgG HRP conjugated at 1/10000
- 60 minutes of incubation**

## IMMUNOFLUORESCENCE ANALYSIS

Immunofluorescence analysis of Transcription factor GATA-4 (GATA4) expression in 2 cells lines (Capan-2, SH-SY5Y). The purified Antibody ENSG00000136574 has been tested at 1/5000.

Red staining : cytoskeleton (microtubules/ $\alpha$ -tubuline)

Blue staining : nucleus (Hoechst)

Green staining : anti- GATA4 antibody (purified)

Expected subcellular location : Nucleus

