

PRODUCT INFORMATION

Product name : GATA4 antibody

Product type : Primary antibodies

Description : Mouse monoclonal to GATA4

Immunogen : 1 synthetic peptide (human) conjugated to KLH

Reacts with : Hu, Ms

Tested applications : ELISA, WB & IF

GENE INFORMATION

Gene Symbol : GATA4

Gene Name : GATA binding protein 4

Ensembl ID : ENSG00000136574

Entrez GeneID : 2626

GenBank Accession number : AK097060

Swiss-Prot : P43694

Molecular weight : 44.6kDa

Function : Transcriptional activator. Binds to the consensus sequence 5'-AGATAG-3'. Acts as a transcriptional activator of ANF in cooperation with NKX2-5 By similarity. Promotes cardiac myocyte enlargement.

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

Recommended dilution :

- **ELISA:** Antibody specificity was verified by direct ELISA against the 1 immunogen peptide. A titer of 190000 has been determined. Appropriate specificity controls were run.
- **WB:** Dilution 1/5000
- **IF:** Dilution 1/500

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

Raised in : Mouse

Clonality : Monoclonal

Isotype : IgG

Purity : Purified Antibody

Concentration: 2mg/ml

Storage buffer : Containing a final concentration of PBS/glycerol (V/V), 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

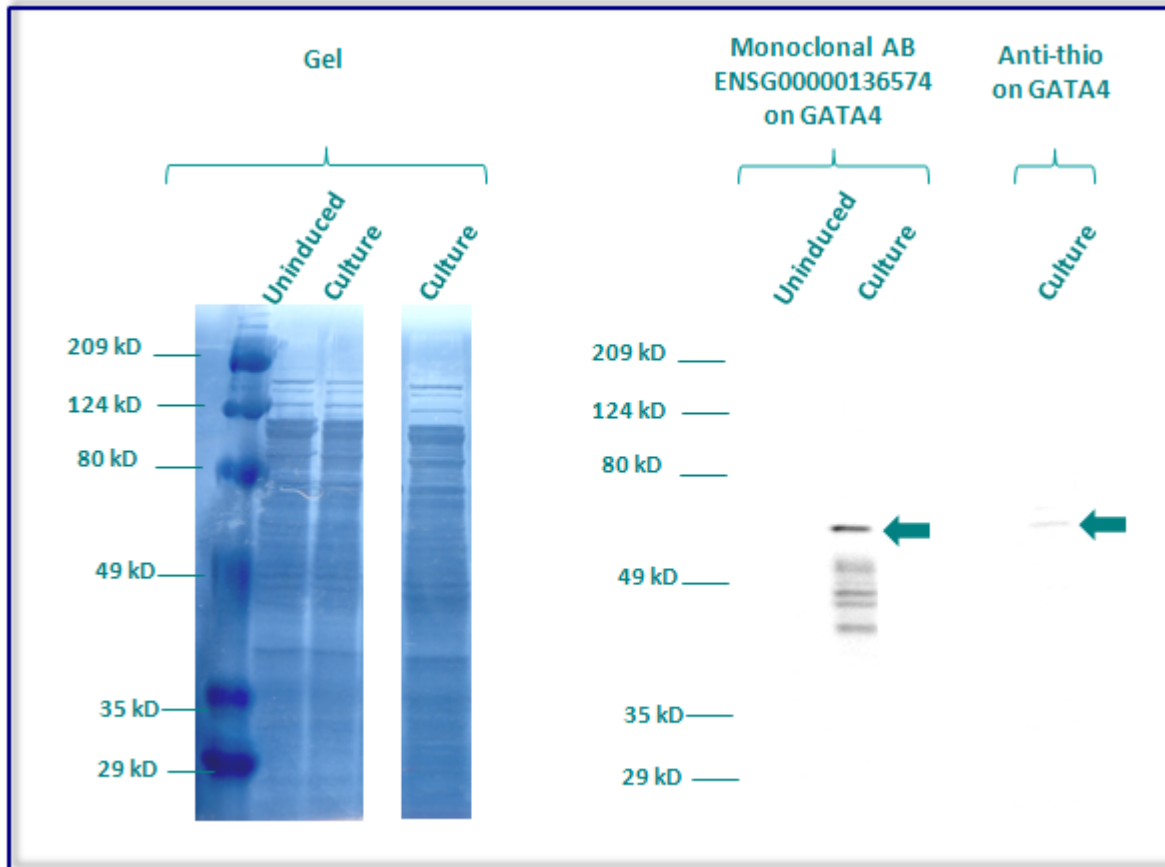
The monoclonal purified antibody ENSG00000136574 has tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

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

Clone : 5E6E10F9, Isotype : G1; kappa

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

1st 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

2nd Antibody: The antibody is diluted in blocking buffer.

- Dilute the anti-Mouse IgG HRP conjugated at 1/10000

60 minutes of incubation

IMMUNOFLUORESCENCE ANALYSIS

Immunofluorescence analysis of Transcription factor GATA-4 (GATA4) expression in 1 cell line (Capan-2). The monoclonal antibody ENSG00000136574 has been tested at 1/500.

Green staining : cytoskeleton (microtubules/ α -tubuline)

Blue staining : nucleus (Hoechst)

Red staining : anti- GATA4 antibody (purified)

Expected subcellular location : Nucleus

