

## PRODUCT INFORMATION

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**Product name :** GATA3 antibody

**Product type :** Primary antibodies

**Description :** Rabbit polyclonal to GATA3

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

**Reacts with :** Hu, Ms

**Tested applications :** ELISA and WB

## GENE INFORMATION

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**Gene Symbol :** GATA3

**Gene Name :** GATA binding protein 3

**Ensembl ID :** ENSG00000107485

**Entrez GeneID :** 2625

**GenBank Accession number :** X55122.1

**Omim ID :** 131320

**Swiss-Prot :** P23771

**Molecular weight of GATA3 :** 47.916kDa (Isoform 1) and 48.045kDa (Isoform 2)

**Function :** Transcriptional activator which binds to the enhancer of the T-cell receptor alpha and delta genes. Binds to the consensus sequence 5'-AGATAG-3'.

**Expected subcellular localization :** Nucleus.

**Expected tissue specificity :** T-cells and endothelial cells.

**Involvement in disease :** Defects in GATA3 are the cause of hypoparathyroidism with sensorineural deafness and renal dysplasia (HDR) [MIM:146255]; also known as Barakat syndrome

## **APPLICATION NOTE**

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### **Recommended dilution :**

- **ELISA:** Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A titer of 1/30000 has been determined. Appropriate specificity controls were run.
- **WB:** 1/5000.

**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, containing a final concentration of 50% Glycerol, 0.1% BSA and 0.01% Thimerosal.

**Form :** Liquid

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

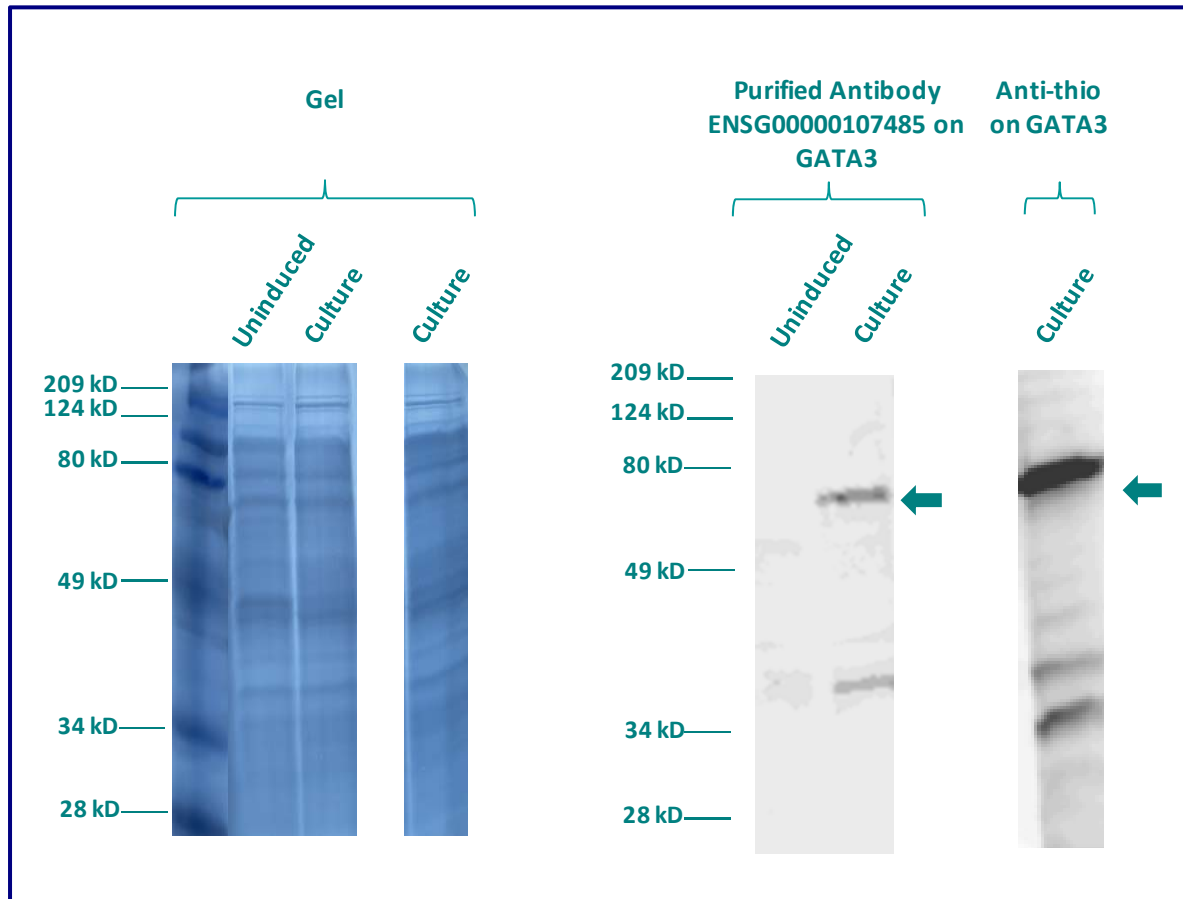
## WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000107485 has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

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

Plasmid name : pBAD-DEST49.

Molecular weight of GATA3 : 61.9kDa (47.9kDa + 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 ENSG00000107485 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