

PRODUCT INFORMATION

Product name : GATA6 antibody

Product type : Primary antibodies

Description : Rabbit polyclonal to GATA6

Immunogen : 3 synthetic peptides (human) conjugated to KLH

Reacts with : Hu, Ms

Tested applications : ELISA, WB and IF

GENE INFORMATION

Gene Symbol : GATA6

Gene Name : GATA binding protein 6

Ensembl ID : ENSG00000141448

Entrez GeneID : 2627

GenBank Accession number : U66075

Swiss-Prot : Q92908

Molecular weight of GATA6 : 60 & 45 kDa

Function : Transcriptional activator that regulates SEMA3C and PLXNA2. Thought to be important for regulating terminal differentiation and/or proliferation.

Expected subcellular localization : Nucleus

Expected tissue specificity: Expressed in heart, gut and gut-derived tissues.

Summary : This gene is a member of a small family of zinc finger transcription factors that play an important role in the regulation of cellular differentiation and organogenesis during vertebrate development. This gene is expressed during early embryogenesis and localizes to endo- and mesodermally derived cells during later embryogenesis and thereby plays an important role in gut, lung, and heart development. Mutations in this gene are associated with several congenital defects. [provided by RefSeq]

APPLICATION NOTE

Recommended dilution :

- **ELISA:** Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A titer of 1/10000 has been determined. Appropriate specificity controls were run.
- **WB (recombinant protein):** 1/1000.
- **WB (cell lysate):** 1/250
- **IF:** 1/5000.

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

Raised in : Rabbit

Clonality : Polyclonal

Isotype : IgG

Purity : Purified antibody

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

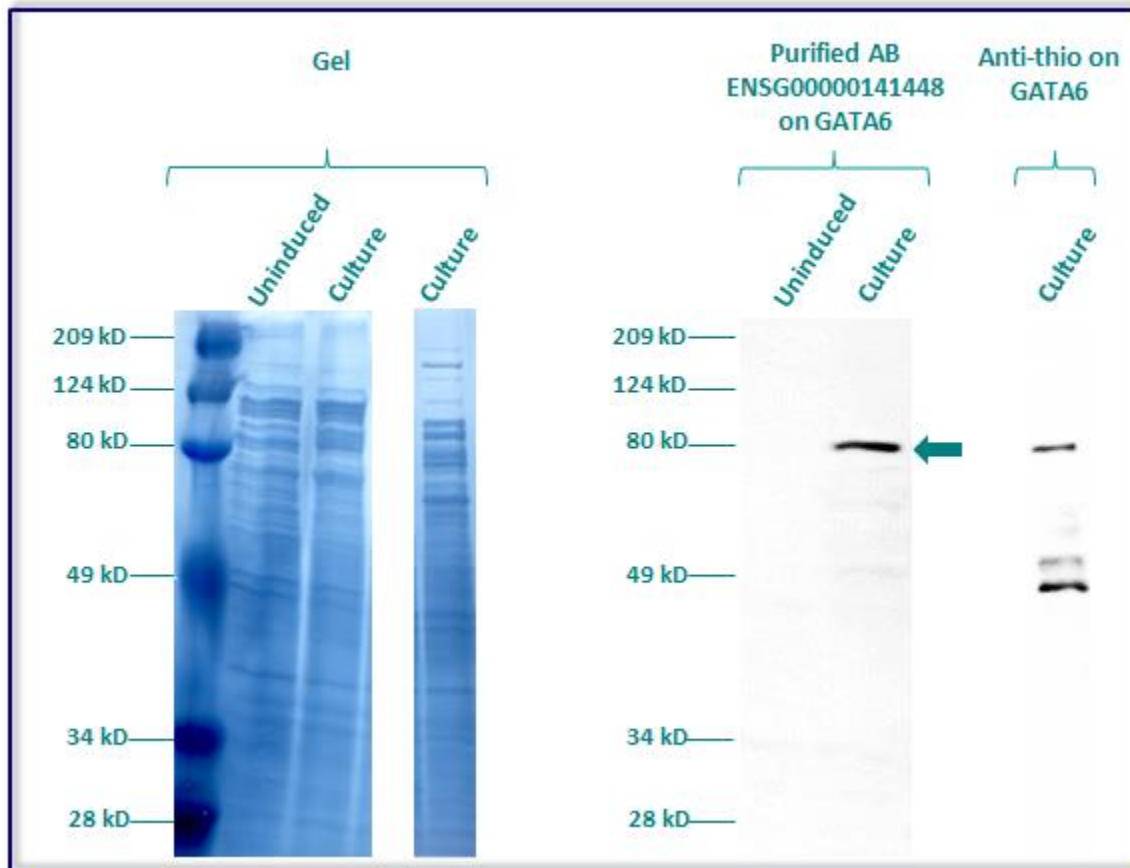
WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000141448 has been tested at 1/1000 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 GATA6 : 74kDa (60kDa + 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 ENSG00000141448 at 1:1000
- Dilute the anti-thio at 1:5000

60 minutes of incubation

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

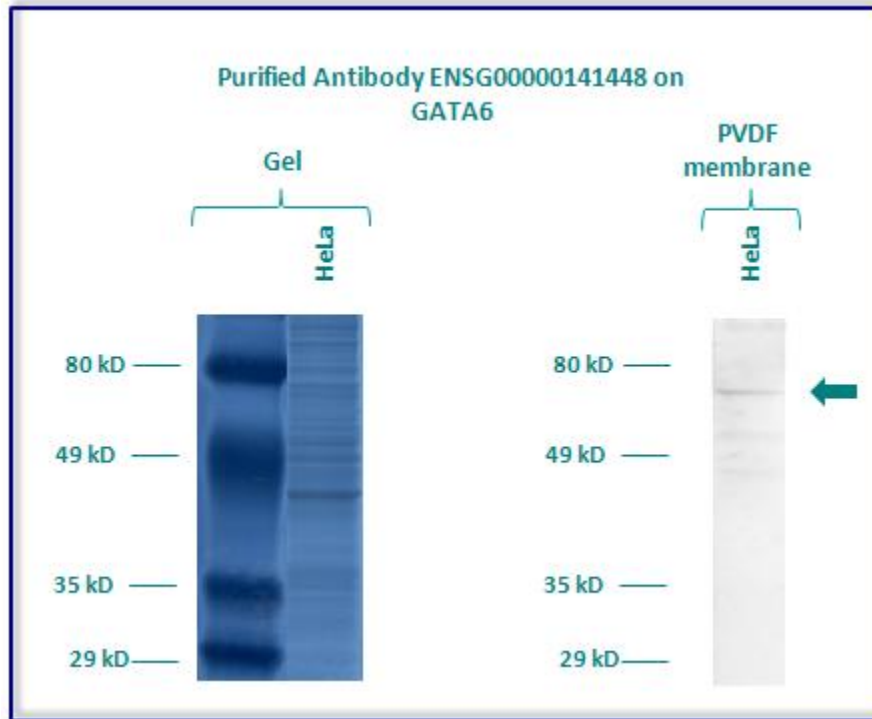
- Dilute the anti-Rabbit IgG HRP conjugated at 1/10000

60 minutes of incubation

WESTERN BLOT ON CELL LYSATES

The purified antibody ENSG00000141448 has been tested at 1/250 has been tested at a concentration of 1/250 on total protein extract of HeLa cell lines.

Molecular weight of GATA6 : 60 & 45kDa



Gel concentration: 10%

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

1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000141448 at 1:250
60 minutes of incubation

2nd 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-6 (GATA6) expression in 4 cells lines (HELA, 293T/17, Capan-2, SH-SY5Y). The purified Antibody ENSG00000141448 has been tested at 1/5000.

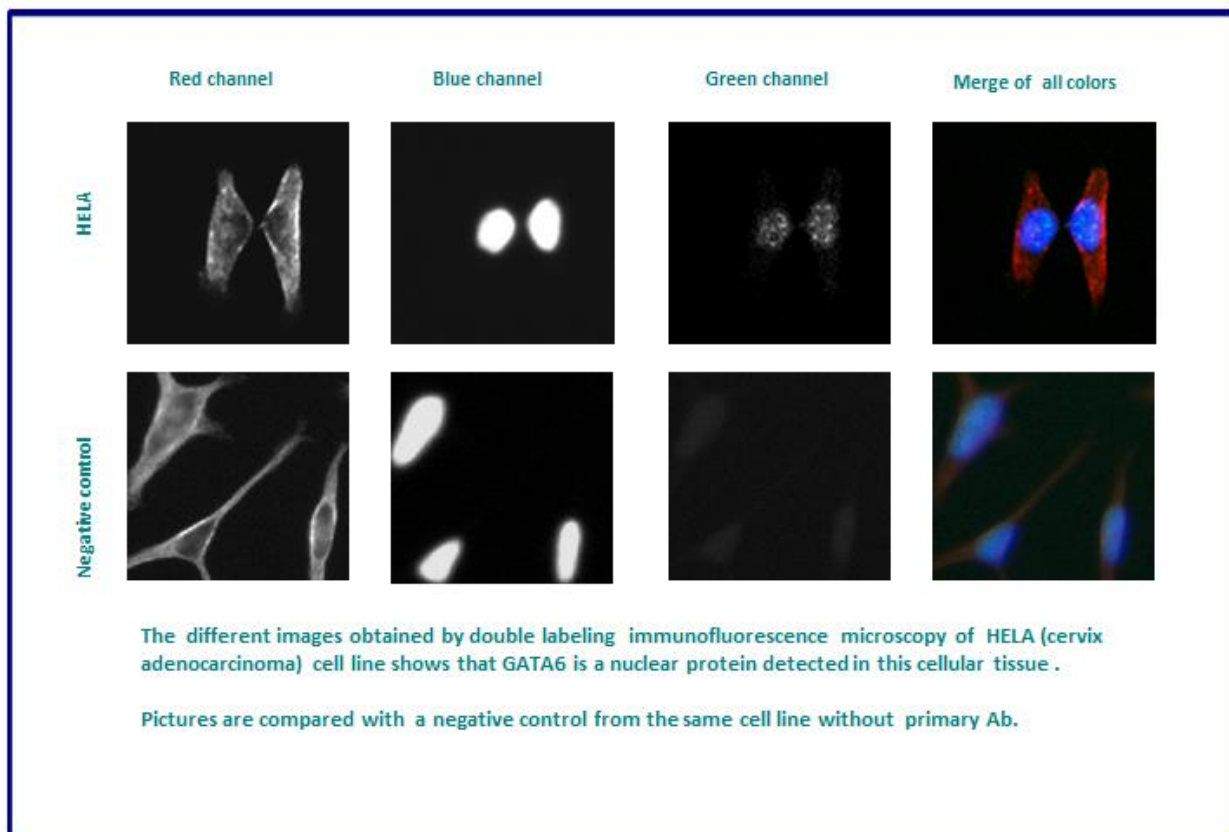
Red staining : cytoskeleton (microtubules/ α -tubuline)

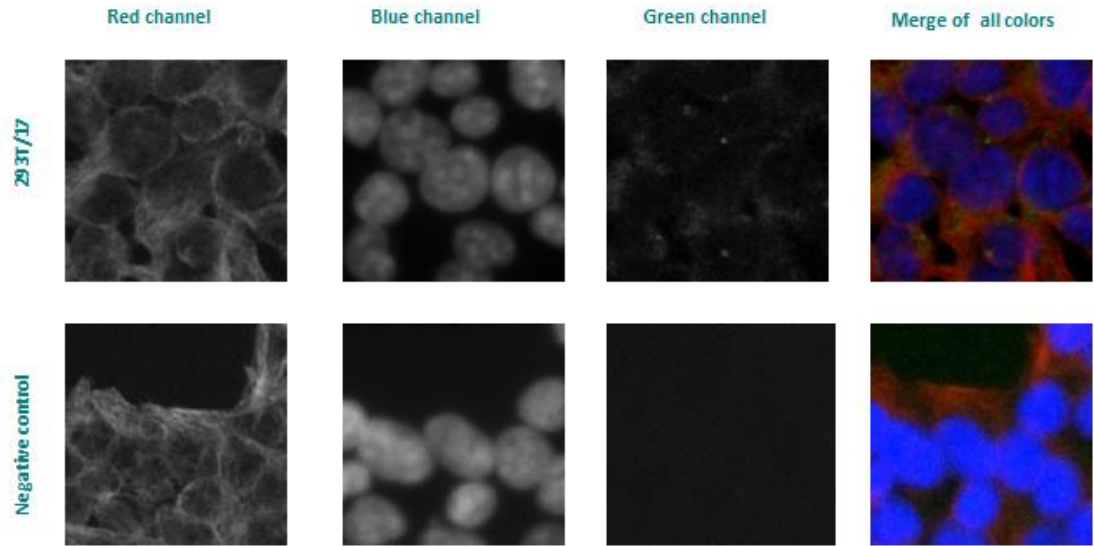
Blue staining : nucleus (Hoechst)

Green staining : anti- FOXN3 antibody (purified)

Expected subcellular location : Nucleus

Expected tissue specificity : Expressed in heart, gut and gut-derived tissues





The different images obtained by double labeling immunofluorescence microscopy of 293T/17 (kidney embryonic) cell line shows that GATA6 is a cytoplasmic protein detected in this cellular tissue .

Pictures are compared with a negative control from the same cell line without primary Ab.

Remaining cell lines tested gave a positive result with a nuclear distribution.