

PRODUCT INFORMATION

Product name : FOXP3 antibody

Product type : Primary antibodies

Description : Rabbit polyclonal to FOXP3

Immunogen : 3 synthetic peptides (human) conjugated to KLH

Reacts with : Human, Mouse

Tested applications : ELISA, WB and IF

GENE INFORMATION

Gene Symbol : FOXP3

Gene Name : forkhead box P3

Ensembl ID : ENSG00000049768

Entrez GeneID : 50943

Omim ID : 300292

Swiss-Prot : Q9BZS1

Molecular weight of FOXP3 : 47.2kDa

Function : Probable transcription factor. Plays a critical role in the control of immune response

Expected subcellular localization : Nucleus

Summary : The protein encoded by this gene is a member of the forkhead/winged-helix family of transcriptional regulators. Defects in this gene are the cause of immunodeficiency polyendocrinopathy, enteropathy, X-linked syndrome (IPEX), also known as X-linked autoimmunity-immunodeficiency syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

APPLICATION NOTE

Recommended dilution :

- **ELISA:** Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A minimum titer of 1/64000 is determined. Appropriate specificity controls were run.
- **WB (recombinant protein):** 1/5000.
- **WB (cell lysate):** 1/500.
- **IF:** 1/1000.

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.

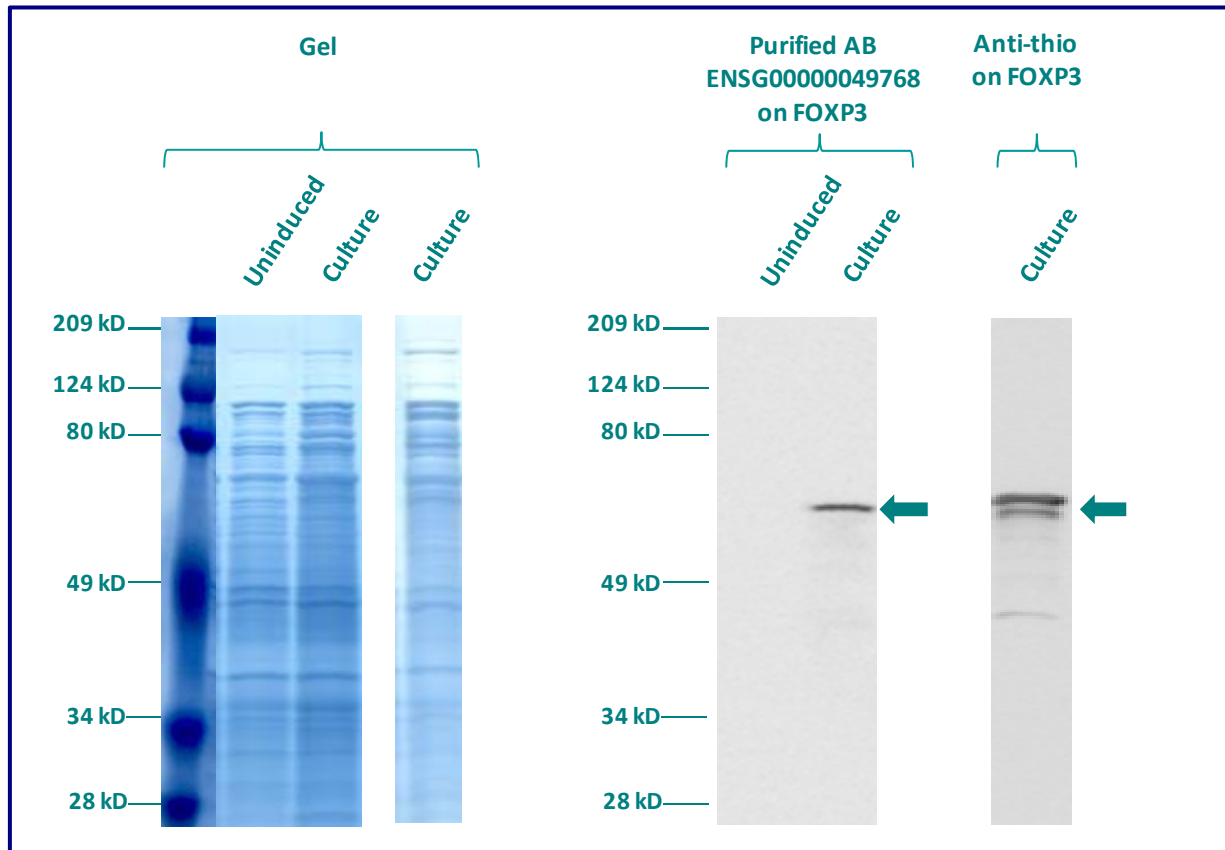
WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000049768 has been 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 FOXP3 : 61.24kDa (47.24kDa + 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 ENSG00000049768 at 1: 5000
- Dilute the anti-thio at 1:5000

60 minutes of incubation

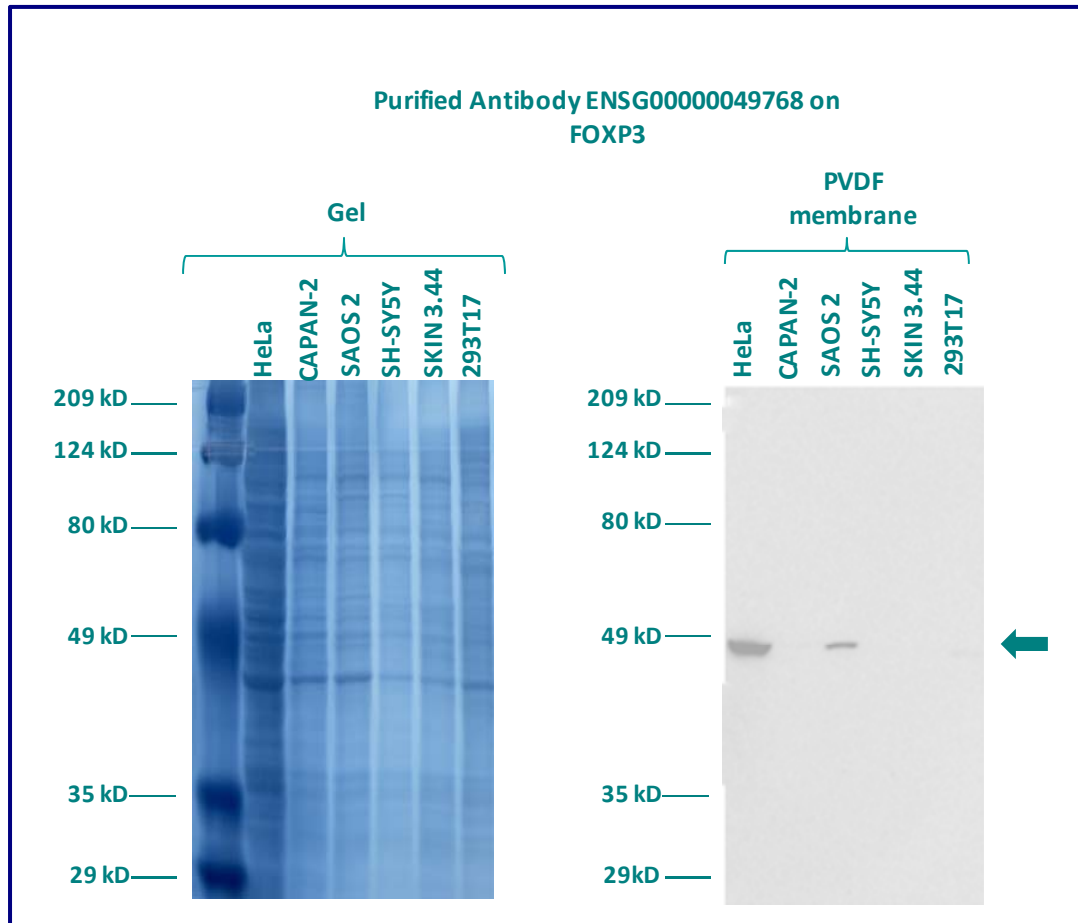
2nd Antibody: The antibody is diluted in blocking buffer.

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

WESTERN BLOT ON CELL LYSATE

The purified antibody ENSG00000049768 has been tested at a concentration of 1/500 on total protein extract of various cell lines (HeLa, CAPAN-2, SAOS 2, SH-SY5Y, SKIN3.44 & 293T17).

Molecular weight of FOXP3 : 47.2kDa



Gel concentration: 10%

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

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

- Dilute the purified antibody ENSG00000049768 at 1: 500
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 Forkhead box protein P3 (FOXP3) expression in 1 cell line (HELA). The purified Antibody ENSG00000049768 has been tested at 1/5000.

Red staining : cytoskeleton (microtubules/ α -tubuline)

Blue staining : nucleus (Hoechst)

Green staining : anti- FOXP3 antibody (purified)

Expected subcellular location : Nucleus

