PRODUCT INFORMATION

Product name: TFEC antibody

Product type: Primary antibodies

Description: Rabbit polyclonal to TFEC

Immunogen: 3 synthetic peptides (human) conjugated to KLH

Reacts with: Human, Mouse

Tested applications: ELISA, WB and IF

GENE INFORMATION

Gene Symbol: TFEC

Gene Name: Transcription factor EC

Ensembl ID: ENSG00000105967

Entrez GeneID: 22797

GenBank Accession number: D43945

Omim ID: 604732 Swiss-Prot: 014948

Molecular weight of TFEC: 38.7kDa

Function: Transcriptional regulator that acts as a repressor or an activator. Acts as a transcriptional repressor on minimal promoter containing element F (that includes an E-box sequence). Binds to element F in an E-box sequence-specific manner. Acts as a transcriptional transactivator on the proximal promoter region of the tartrate-resistant acid phosphatase (TRAP) E-box containing promoter Collaborates with MITF in target gene activation Acts as a transcriptional repressor on minimal promoter containing mu E3 enhancer sequence. Binds to mu E3 DNA sequence of the immunoglobulin heavy-chain gene enhancer. Binds DNA in a homo- or heterodimeric form

Expected subcellular localization: Nucleus

Recommended dilution:

• ELISA: Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A minimum titer of 1/7000 is determined. Appropriate specificity controls were run.

WB: 1:3500IF: 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 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.

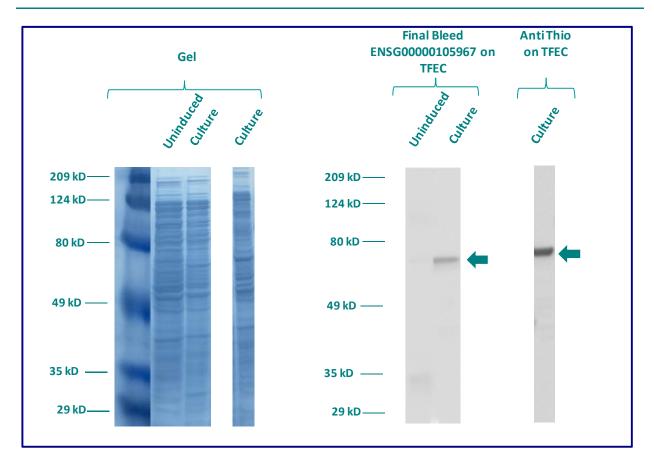
WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000105967 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 TFEC: 52.8kDa (38.8kDa + 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 ENSG00000105967 at 1: 3500
- 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

IMMUNOFLUORESCENCE ANALYSIS

Immunofluorescence analysis of Transcription factor EC (TFEC) expression in 5 cells lines (HELA, Capan-2, SAOS-2, SH-SY5Y, Skin 3.44). The purified Antibody ENSG00000105967 has been tested at 1/5000.

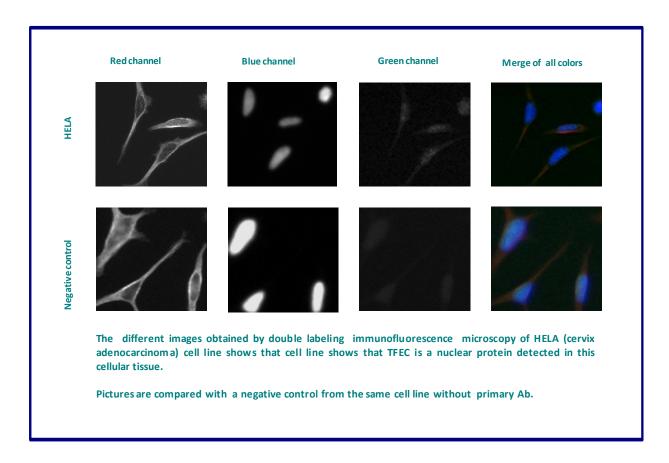
Red staining : cytoskeleton (microtubules/ α -tubuline)

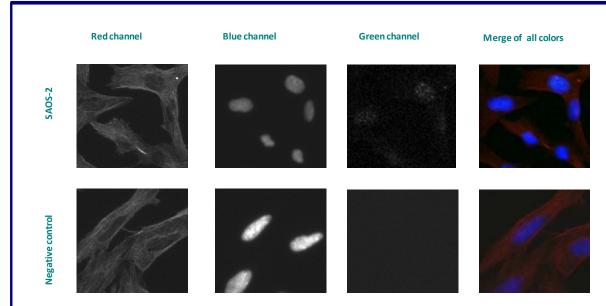
Blue staining: nucleus (Hoechst)

Green staining: anti-TFEC antibody (purified)

Expected subcellular location: Nucleus

Expected tissue specificity: Expressed moderately in spleen, kidney, bone marrow, small intestine and leukocytes. Expressed weakly in testis, trachea and colon.





The merge of staining obtained by double labeling immunofluorescence microscopy of SAOS-2 (osteosarcoma) cell line shows that cell line shows that TFEC is a nuclear 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 the same distribution