

PRODUCT INFORMATION

Product name : FOSB antibody

Product type : Primary antibodies

Description : Rabbit polyclonal to FOSB

Immunogen : 3 synthetic peptides (human) conjugated to KLH

Reacts with : Hu, Ms

Tested applications : ELISA, WB and IF

GENE INFORMATION

Gene Symbol : FOSB

Gene Name : FBJ murine osteosarcoma viral oncogene homolog B

Ensembl ID : ENSG00000125740

Entrez GeneID : 2354

Swiss-Prot : P53539

Molecular weight of FOSB : 35.96 & 31.5kDa

Function : FosB interacts with Jun proteins enhancing their DNA binding activity.

Expected subcellular localization : nucleus.

Summary : The Fos gene family consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins that can dimerize with proteins of the JUN family, thereby forming the transcription factor complex AP-1. As such, the FOS proteins have been implicated as regulators of cell proliferation, differentiation, and transformation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

APPLICATION NOTE

Recommended dilution :

- **ELISA:** Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A titer of 1/3000 has been determined. Appropriate specificity controls were run.
- **WB:** 1/2500.
- **IF:** 1/500.

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

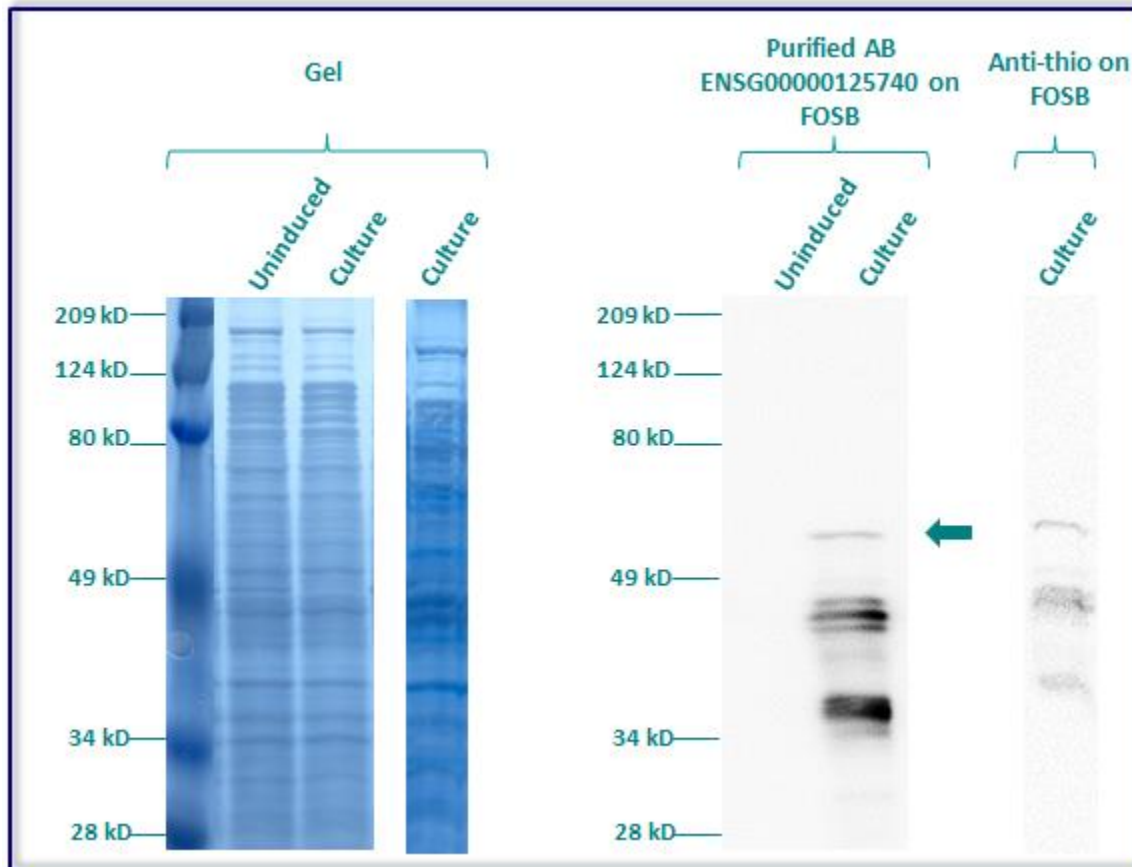
Storage instruction : Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000125740 has been tested at 1/2500 on uninduced culture (negative control) and on 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 FOSB : 49.9kDa (35.9kDa + another 14kDa for the tag).



NOTE: THE PURIFIED ANTIBODY DOES NOT DETECT THE PROTEIN IN THE FOLLOWING CELL LYSATES (HeLa, SAOS 2, SH-SY5Y, SKIN 3.44 & 293T17) AT A DILUTION OF 1:500.

Gel concentration: 10%

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

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

- Dilute the purified antibody ENSG00000125740 at 1:2500
- 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

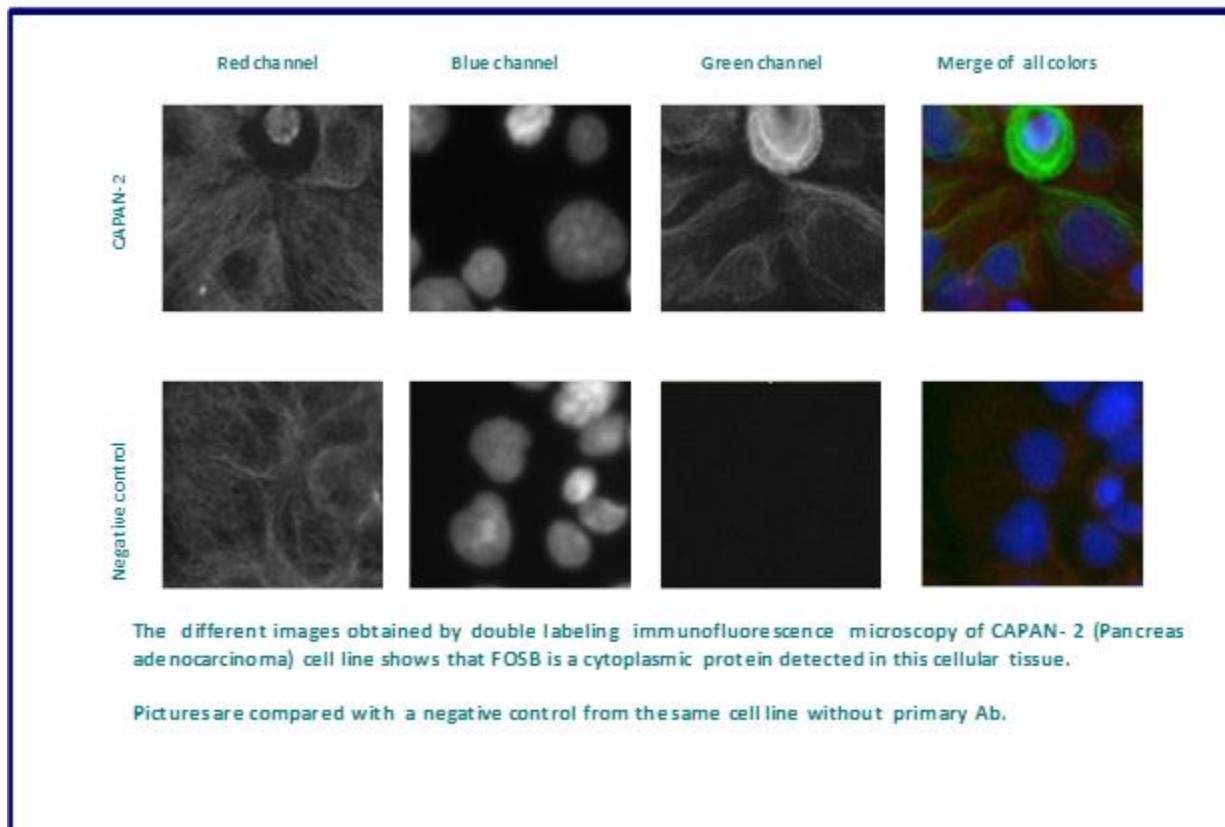
Immunofluorescence analysis of Protein fosB (FOSB) expression in 5 cells lines (HELA, Capan-2, SAOS-2, SH-SY5Y, Skin 3,44). The purified Antibody ENSG00000125740 has been tested at 1/500.

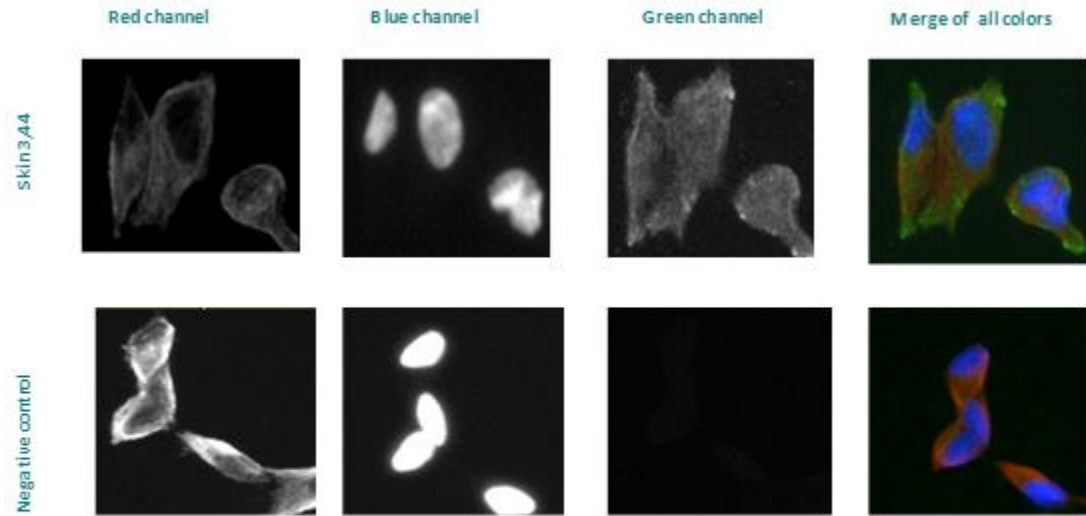
Red staining : cytoskeleton (microtubules/ α -tubuline)

Blue staining : nucleus (Hoechst)

Green staining : anti- FOXN3 antibody (purified)

Expected subcellular location : Nucleus





The different images obtained by double labeling immunofluorescence microscopy of Skin 3/44 (melanoma) cell line shows that FOSB 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 results with a cytoplasmic distribution.