PRODUCT INFORMATION

Product name : TFAP2B antibody Product type : Primary antibodies Description : Rabbit polyclonal to TFAP2B Immunogen : 3 synthetic peptides (human) conjugated to KLH Reacts with : Hu, Ms Tested applications : ELISA, WB and IF

GENE INFORMATION

Gene Symbol : TFAP2B Gene Name : transcription factor AP-2 beta (activating enhancer binding protein 2 beta) Ensembl ID : ENSG00000008196 Entrez GeneID : 7021 GenBank Accession number : X95694 Swiss-Prot : Q92481

Molecular weight of TFAP2B : 51.5 & 50.4kDa

Function : Sequence-specific DNA-binding protein that interacts with inducible viral and

cellular enhancer elements to regulate transcription of selected genes. AP-2 factors bind to the consensus sequence 5'-GCCNNNGGC-3' and activate genes involved in a large spectrum of important biological functions including proper eye, face, body wall, limb and neural tube development. They also suppress a number of genes including MCAM/MUC18, C/EBP alpha and MYC. AP-2-beta appears to be required for normal face and limb development and for proper terminal differentiation and function of renal tubular epithelia.

Expected subcellular localization : Nucleus.

Summary : This gene encodes a member of the AP-2 family of transcription factors. AP-2 proteins form homo- or hetero-dimers with other AP-2 family members and bind specific DNA sequences. They are thought to stimulate cell proliferation and suppress terminal differentiation of specific cell types during embryonic development. Specific AP-2 family members differ in their expression patterns and binding affinity for different promoters. This protein functions as both a transcriptional activator and repressor. Mutations in this gene result in autosomal dominant Char syndrome, suggesting that this gene functions in the differentiation of neural crest cell derivatives. [provided by RefSeq]

APPLICATION NOTE

Recommended dilution :

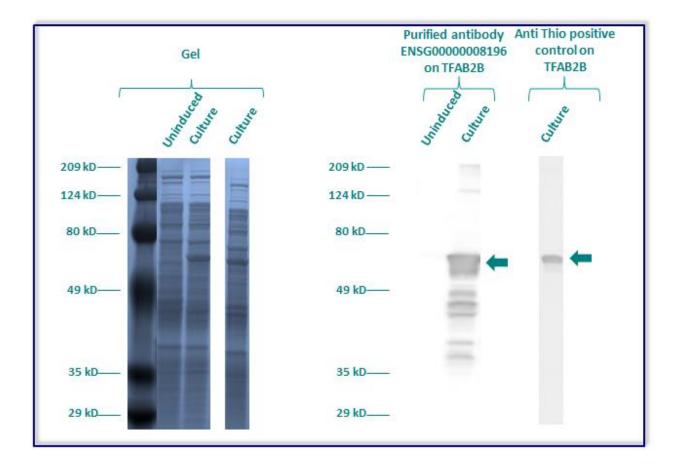
- ELISA: Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A titer of 1/4000 has been determined. Appropriate specificity controls were run.
- WB: 1/500.
- WB (cell lysate): 1/125
- IF: 1/500.

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. The purified antibody ENSG00000008196 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 TFAP2B : 64.5kDa (50.5kDa + 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.

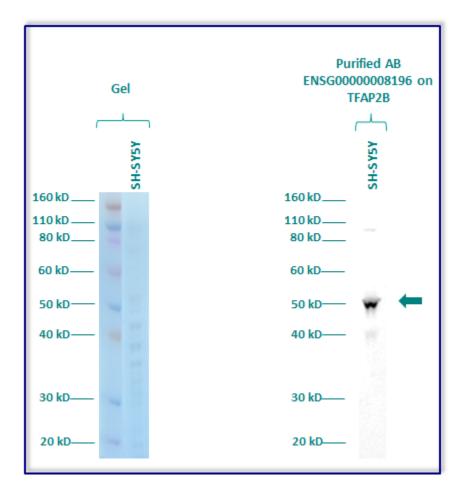
- Dilute the purified antibody ENSG0000008916 at 1:500
- Dilute the anti-thio at 1:5000
- 60 minutes of incubation

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

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

The purified antibody ENSG0000008916 has been tested at a concentration of 1/125 on total protein extract 293T17 cell lines.

Molecular weight of TFAP2B : 51.5 & 50.5kDa.



Gel concentration: 10%

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

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

• Dilute the purified antibody ENSG0000008916 at 1:125 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 AP-2-beta (TFAP2B) expression in 6 cells lines (HELA, 293T/17, Capan-2, SAOS-2, SH-SY5Y, Skin 3,44). The purified antibody ENSG0000008196 has been tested at 1/1000. Red staining : cytoskeleton (microtubules/α-tubuline) Blue staining : nucleus (Hoechst) Green staining : anti- TFAP2B antibody (purified) Expected subcellular location : Nucleus

