PRODUCT INFORMATION

Product name : POU4F3 antibody Product type : Primary antibodies Description : Rabbit polyclonal to POU4F3 Immunogen : 3 synthetic peptides (human) conjugated to KLH Reacts with : Human, Mouse Tested applications : ELISA, WB & IF

GENE INFORMATION

Gene Symbol : POU4F3 Gene Name : POU class 4 homeobox 3 Ensembl ID : ENSG00000091010 Entrez GeneID : 5459 GenBank Accession number : U10060 Omim ID : 602460 Swiss-Prot : Q15319

Molecular weight of POU4F3 : 37.1kDa

Function : May play a role in determining or maintaining the identities of a small subset of visual system neurons.

Expected subcellular localization : Nucleus.

Summary : This gene encodes a member of the POU-domain family of transcription factors. POU-domain proteins have been observed to play important roles in control of cell identity in several systems. This protein is found in the retina and may play a role in determining or maintaining the identities of a small subset of visual system neurons. Defects in this gene are the cause of non-syndromic sensorineural deafness autosomal dominant type 15 [provided by RefSeq].

APPLICATION NOTE

Recommended dilution :

- ELISA: Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A minimum titer of 1/9000 is determined for one of the three peptides. Appropriate specificity controls were run.
- WB: 1/500.
- IF: 1/250.

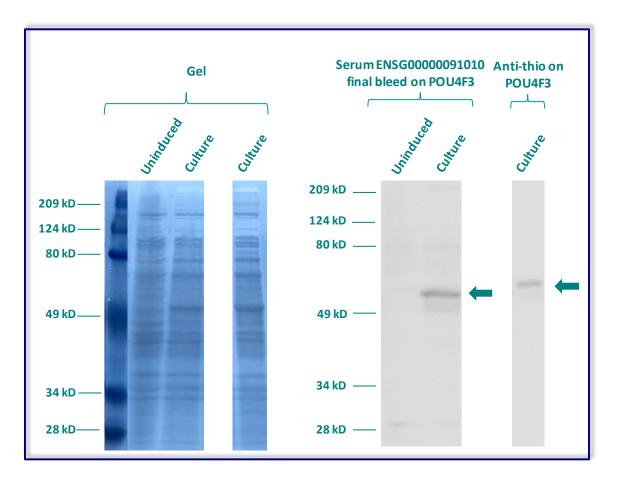
Optimal dilutions/concentration should be determined by the end user.

Raised in : Rabbit Clonality : Polyclonal Isotype : IgG Purity : Crude serum, final bleed Storage buffer : Crude serum Form : Liquid Storage instruction : Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. The serum ENSG0000091010 has been tested at 1/500 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 POU4F3 : 51.1kDa (37.1kDa + another 14kDa for the tag).



NOTE: THE SERUM DOES NOT DETECT THE PROTEIN IN THE FOLLOWING CELL LYSATES (HeLa, SAOS 2, SH-SY5Y, SKIN 3.44 & 293T17) AT A DILUTION OF 1:250.

Gel concentration: 10%

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

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

- Dilute the serum ENSG0000091010 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 1/1000
- 60 minutes of incubation

IMMUNOFLUORESCENCE ANALYSIS

Immunofluorescence analysis of POU domain, class 4, transcription factor 3 (POU4F3) expression in 3 cells lines (293T/17, Capan-2, Skin 3.44). The crude serum ENSG0000091010 has been tested at 1/250.

Red staining : cytoskeleton (microtubules/α-tubuline)

Blue staining : nucleus (Hoechst)

Green staining : anti- POU4F3 antibody (purified)

Expected subcellular location : Nucleus

Expected tissue specificity : Brain. Seems to be specific to the retina

