

PRODUCT INFORMATION

Product name : TRB1 antibody

Product type : Primary antibodies

Description : Rabbit polyclonal to TBR1

Immunogen : 3 synthetic peptides (human) conjugated to KLH

Reacts with : Hu, Ms

Tested applications : ELISA, WB and IF

GENE INFORMATION

Gene Symbol : TBR1

Gene Name : T-box, brain, 1

Ensembl ID : ENSG00000136535

Entrez GeneID : 10716

GenBank Accession number : U49250

Swiss-Prot : Q16650

Molecular weight of TBR1 : 70.1kDa

Function : Probable transcriptional regulator involved in developmental processes. TBR1 is required for normal brain development.

Expected subcellular localization : Nucleus.

Expected tissue specificity : Brain.

Summary : This gene is a member of a conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. A similar protein has been disrupted in mice and shown to be critical for early cortical development, and causes loss of projection neurons in the olfactory bulbs and olfactory cortex. The C-terminal region this similar protein was found to be necessary and sufficient for association with the guanylate kinase domain of calcium/calmodulin-dependent serine protein kinase. [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:** 1/1500.
- **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.

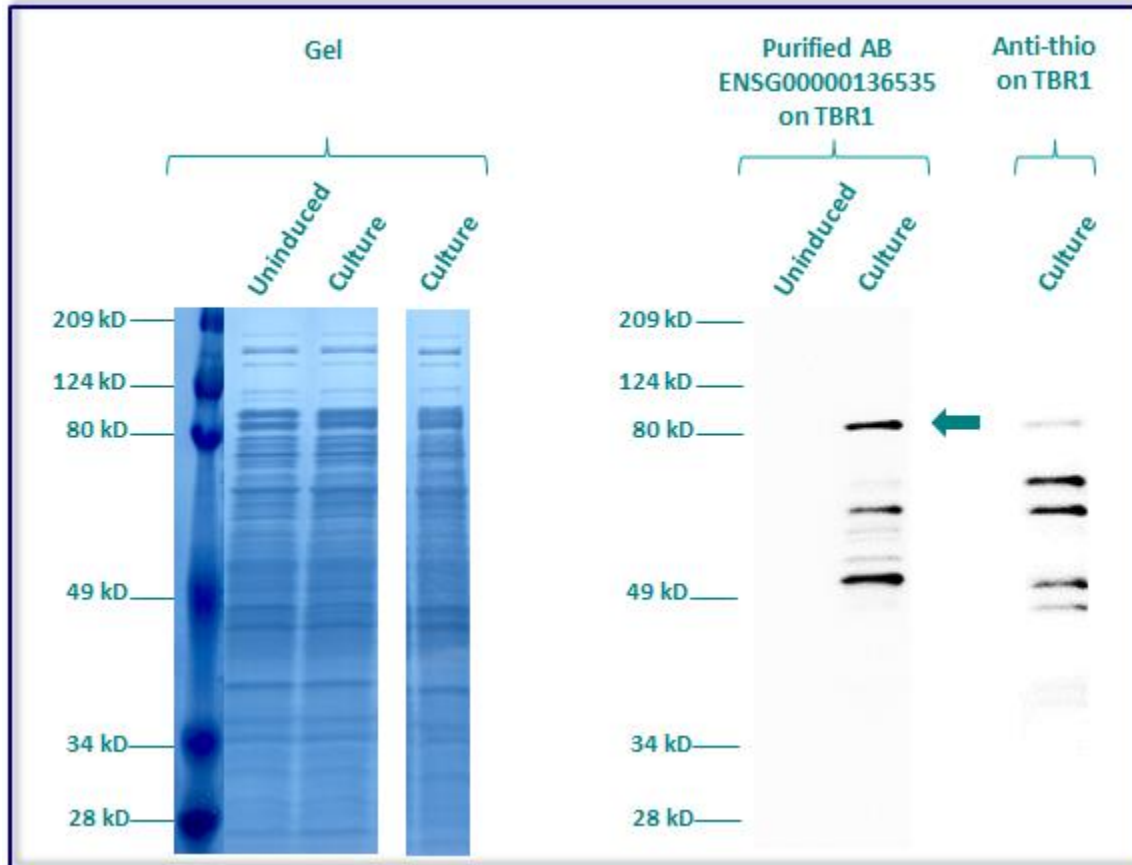
WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000136535 has been tested at 1/1500 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 TBR1 : 88.1kDa (74.1kDa + another 14kDa for the tag).



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

Gel concentration: 10%

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

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

- Dilute the purified antibody ENSG00000136535 at 1:1500
- 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 T-box brain protein 1 (TBR1) expression in 2 cells lines (SH-SY5Y, Skin 3,44). The purified Antibody ENSG00000136535 has been tested at 1/500.

Red staining : cytoskeleton (microtubules/ α -tubuline)

Blue staining : nucleus (Hoechst)

Green staining : anti- TBR1 antibody (purified)

Expected subcellular location : Nucleus

Expected tissue specificity : Brain

