

PRODUCT INFORMATION

Product name : TP73 antibody

Product type : Primary antibodies

Description : Rabbit polyclonal to TP73

Immunogen : 3 synthetic peptides (human) conjugated to KLH

Reacts with : Human, Mouse

Tested applications : ELISA and WB

GENE INFORMATION

Gene Symbol : TP73

Gene Name : tumor protein p73

Ensembl ID : ENSG00000078900

Entrez GeneID : 7161

GenBank Accession number : AB055065

Omim ID : 601990

Swiss-Prot : O15350

Molecular weight of TP73 :

- 69.6kDa [Isoform Alpha]
- 54.3kDa [Isoform Beta]
- 53kDa [Isoform Gamma]
- 44.5kDa [Isoform Delta]
- 61.7kDa [Isoform Epsilon]
- 59.9kDa [Isoform Zeta]
- 64.4kDa [Isoform dN-Alpha]
- 49.1kDa [Isoform dN-Beta]
- 47.8 kDa [Isoform dN-Gamma]

Function : Participates in the apoptotic response to DNA damage. Isoforms containing the transactivation domain are pro-apoptotic, isoforms lacking the domain are anti-apoptotic and block the function of p53 and transactivating p73 isoforms. May be a tumor suppressor protein.

Expected subcellular localization : Nucleus. Note: Accumulates in the nucleus in response to DNA damage.

Summary : This gene encodes a member of the p53 family of transcription factors involved in cellular responses to stress and development. It maps to a region on chromosome 1p36

that is frequently deleted in neuroblastoma and other tumors, and thought to contain multiple tumor suppressor genes. The demonstration that this gene is monoallelically expressed (likely from the maternal allele), supports the notion that it is a candidate gene for neuroblastoma. Many transcript variants resulting from alternative splicing and/or use of alternate promoters have been found for this gene, however, the biological validity and the full-length nature of most variants have not been determined [provided by RefSeq].

APPLICATION NOTE

Recommended dilution :

- **ELISA:** Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A minimum titer of 1/25000 is determined. Appropriate specificity controls were run.
- **WB:** 1/5000.

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.

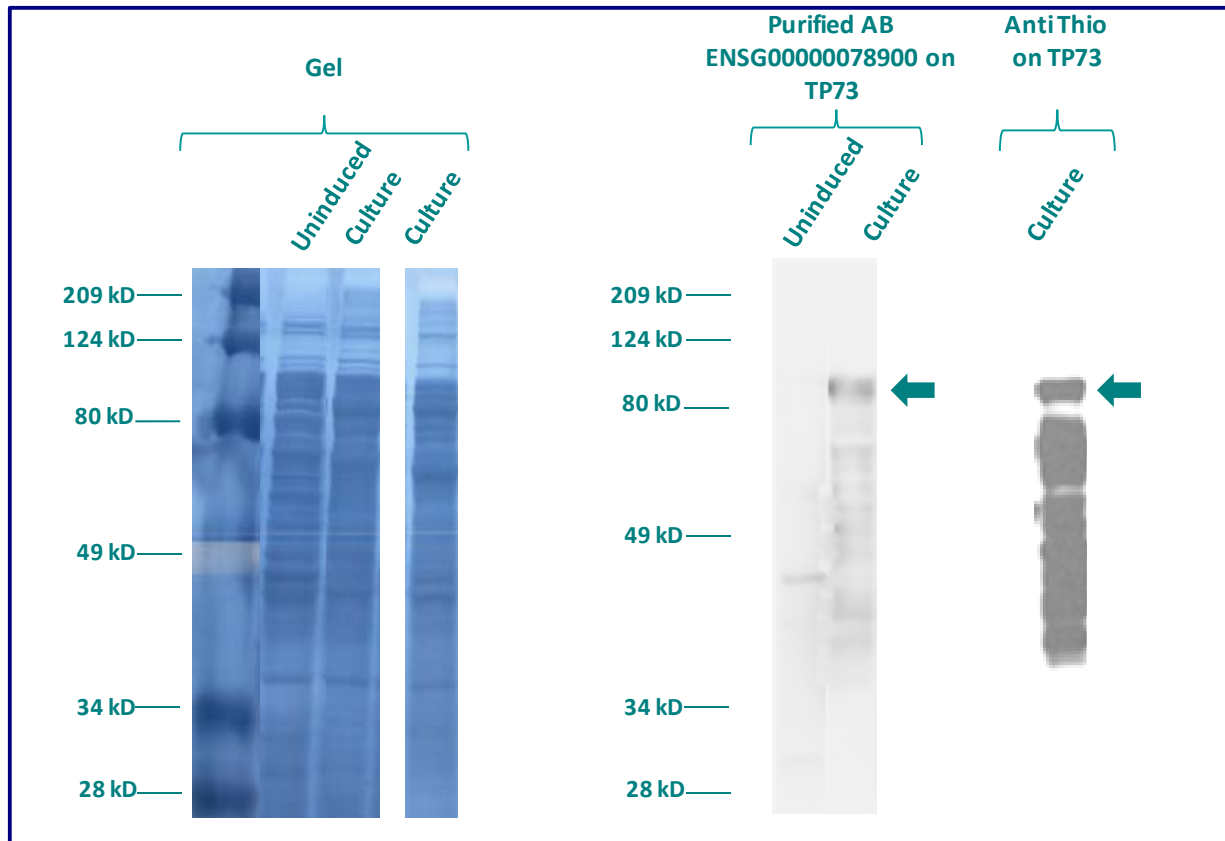
WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000078900 has been tested at 1/10000 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 TP73 : 83.7kDa (69.7kDa + 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 ENSG00000078900 at 1: 5000
- 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