

For Research Use Only

# HSF4 Polyclonal antibody

Catalog Number: 18797-1-AP

Featured Product

3 Publications



## Basic Information

**Catalog Number:**

18797-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

BC130383

**GeneID (NCBI):**

3299

**UNIPROT ID:**

Q9ULV5

**Full Name:**

heat shock transcription factor 4

**Calculated MW:**

53 kDa

**Observed MW:**

53-58 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

## Applications

**Tested Applications:**

WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse

**Cited Species:**

human, mouse

**Positive Controls:**

WB : HeLa cells, mouse skeletal muscle tissue, human skeletal muscle tissue, human heart tissue, MCF-7 cells

## Background Information

HSF4 belongs to the HSF family. HSF4 is a DNA-binding protein that specifically binds heat shock promoter elements (HSE). The isoform HSF4A represses transcription while the isoform HSF4B activates transcription. HSF4 is a homotrimer which exhibits constitutive DNA binding and forms trimers even in the absence of stress. It is expressed in heart, skeletal muscle, eye and brain, and at much lower levels in some other tissues. Mutation of HSF4 will cause lamellar cataract which is known as Marner type cataract (CAM). Lamellar cataract is an autosomal dominant common type of infantile cataract. Finger malformation is observed in some kindreds. Inheritance of these forms of cataract is autosomal dominant.

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenjing Zhang	36229759	Mol Cell Biochem	WB
Feng Guo	34975151	Oncogene	WB
Jing Zhang	37266953	Invest Ophthalmol Vis Sci	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

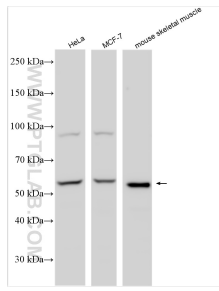
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18797-1-AP (HSF4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.