HSF4 Polyclonal antibody

Catalog Number:18797-1-AP

Featured Product **4 Publications**

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Basic Information

Catalog Number: 18797-1-AP	**GenBank Accession Number:** BC130383	**Purification Method:** Antigen affinity purification
Concentration: 500 μg/ml	**GeneID (NCBI):** 3299	**Recommended Dilutions:** WB 1:1000-1:4000
Source: Rabbit	**UNIPROT ID:** Q9ULV5	
Isotype: IgG	**Full Name:** heat shock transcription factor 4	
	Calculated MW: 53 kDa	
	Observed MW: 53-58 kDa	

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IHC

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

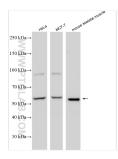| Author	Pubmed ID	Journal	Application
Wenjing Zhang	36229759	Mol Cell Biochem	WB
Feng Guo	34975151	Oncogene	WB
Saeki Saito	40004241	Int J Mol Sci	WB,IHC

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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.