For Research Use Only

HSF4 Polyclonal antibody

Catalog Number:18797-1-AP Featured Product 7 Publications

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Basic Information

Catalog Number:
18797-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

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, 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
Qing Hu	42702049	Cell Adh Migr	

Storage

Storage:
Store at -20°C. 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

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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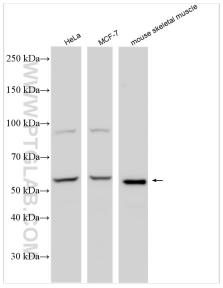
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.