For Research Use Only

HSF4 Polyclonal antibody Catalog Number:22883-1-AP 1 Publications



	Catalog Number: 22883-1-AP	GenBank Accession Number: BC 153061	Purification Method: Antigen Affinity purified	
	Size:	GenelD (NCBI):	Recommended Dilutions:	
	150ul , Concentration: 600 ug/ml by	3299	WB: 1:1000-1:4000	
	Nanodrop and 380 ug/ml by Bradford method using BSA as the standard;	UNIPROT ID: Q9ULV5	IHC: 1:50-1:500	
	Source: Rabbit	Full Name:		
	lsotype: IgG	heat shock transcription factor 4 Calculated MW:		
	Immunogen Catalog Number:	492 aa, 53 kDa Observed MW:		
	AG18935	62-66 kDa		
Applications	Tested Applications:	Positive	Controls:	
	WB, IHC, ELISA WB : H		a cells, human brain tissue, mouse brain	
	Cited Applications: WB		tissue, mouse lung tissue, rat brain tissue, mouse hear tissue, mouse skeletal muscle tissue	
	Species Specificity: human, mouse, rat	IHC : mo	use brain tissue,	
	Cited Species: human			
	Note-IHC: suggested antigen ru TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen		
Background Information	Prokaryotic and eukaryotic cells respond to thermal and chemical stress by inducing a group of genes collectively designated heat shock genes. In eukaryotes, this gene expression is regulated primarily at the transcriptionlevel. Heat shock transcription factors (HSF, also designated HSTF) 1 and 2 are involved in this regulation. HSF1 and HSF2 are upregulated by estrogen, at both the mRNA and protein level. HSF1 is normally found as a monomer, whose transcriptional activity is repressed by constitutive phosphorylation. Upon activation, HSF1 forms trimers, gains DNA binding activity and is translocated to the nucleus. HSF2 activity is associated with differentiation and development, and, like HSF1, binds DNA as a trimer. HSF4 exists as two splice variants and is expressed in heart, brain and skeletal muscle as a homotrimer. HSF4 does not contain a DNA-binding domain and inhibits the formation of HSF1 nuclear bodies, thus repressing HSF1 mediated transcription. HSF4b does contain a DNA-binding domain and splits with HSF1 nuclear bodies after heat shock. This antibody is specific to human HSF4.			
Notable Publications	Author Pub	med ID Journal	Application	
		23307 Exp Eye Res	WB	
	Storage:			
Storage	Store at -20°C. Stable for one year after Storage Buffer:			
Storage *** 20ul sizes contain 0.1% BSA	Store at -20°C. Stable for one year after	% glycerol, pH7.3		

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 22883-1-AP (HSF4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 22883-1-AP (HSF4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 22883-1-AP (HSF4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).