For Research Use Only

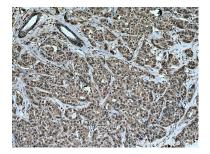
## HSP70 Polyclonal antibody Catalog Number: 10995-1-AP Featured Product

Featured Product 313 Publications

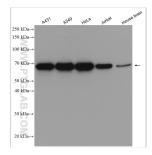


Basic Information	Catalog Number: 10995-1-AP	BC009322 GeneID (NCBI): 3303 UNIPROT ID: PODMV8 Full Name:		Purification Method: Antigen affinity purification Recommended Dilutions:	
	Size: 150ul , Concentration: 750 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG1446			Recommended Dilutions: WB: 1:5000-1:50000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:200-1:2000 IF/ICC: 1:200-1:800	
		heat shock 70kDa p Calculated MW: 70 kDa Observed MW: 66-70 kDa	rotein 1A	FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension	
Applications	WB, IHC, IF/ICC, FC (Intra), IP, ELISA Cited Applications: WB, IHC, IF, IP, CoIP, ELISA Species Specificity: human, mouse, rat Cited Species: human, mouse, rat, rabbit, chicken, zebrafish, sheep,		Positive Co	Positive Controls:	
			WB : A431 cells, human urine exosomes tissue, A549 cells, HeLa cells, Jurkat cells, mouse brain, HEK-293 cells, mouse kidney, rat kidney		
			IP : mouse brain tissue,		
			IHC : human breast cancer tissue, human liver cancer tissue, human normal colon, mouse skin tissue		
			IF/ICC : HeLa cells, HepG2 cells		
	Note-IHC: suggested antigen retrieval with FC (Intra): HeLa cells,   TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate   buffer pH 6.0 FC (Intra): HeLa cells,				
Background Information	HSPA1A, collectively known as HSP70 (also referred to HSP72), is a stress-inducible member of heat-shock protein 70 (HSP70) proteins which are highly conserved chaperons implicated in protein folding, protein refolding, protein transport, and protein targeting. Encoded by two closely linked, intronless and stress-inducible genes, HSPA1A and HSPA1B differ by only two amino acids and are believed to be fully interchangeable proteins. HSPA1A is a cytosol/nuclear protein able to translocate between cytoplasm and nucleus. Generally, HSPA1A is thought to be expressed in unstressed normal cells at low or undetectable levels. Expression of HSPA1A protein can be highly activated by various stressful stimuli. Significant up-regulation of HSPA1A has been found in various tumors. Recently it has been reported that HSPA1A can be constitutively expressed in selected cell types. HSP70 is a useful marker for exosome. This antibody well recognized the endogenous HSP70 protein in multiple cell lines. (21373891)				
Notable Publications	Author	med ID law		Annliesten	
		med ID Jouri 93005 J Nar	nobiotechnology	Application WB	
			ology	WB	
			gene	WB	
Storage	Storage: Store at -20°C. Stable for one year aff Storage Buffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	0% glycerol, pH7.3			
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)	ta for this product please contact: E: proteintech@ptglab.com W: ptglab.com			s exclusively available under Proteintec nd is not available to purchase from any cturer.	

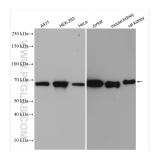
## Selected Validation Data



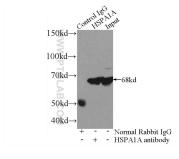
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 10995-1-AP (HSP70 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



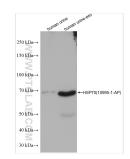
Various lysates were subjected to SDS PAGE followed by western blot with 10995-1-AP (HSP70 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10995-1-AP (HSP70 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-HSP70 (IP:10995-1-AP, 3ug; Detection:10995-1-AP 1:1000) with mouse brain tissue lysate 3600ug.



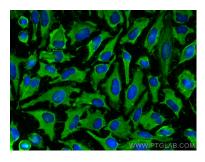
human urine exosomes tissue were subjected to SDS PAGE followed by western blot with 10995-1-AP (HSP70 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



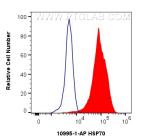
Immunohistochemical analysis of paraffinembedded human normal colon slide using 10995-1-AP (HSP70 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human normal colon slide using 10995-1-AP (HSP70 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using HSP70 antibody (10995-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10^6 HeLa cells were intracellularly stained with 0.25 ug HSP70 Polyclonal antibody (10995-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).