For Research Use Only

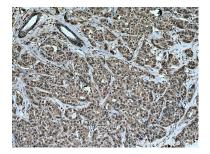
## HSP70 Polyclonal antibody Catalog Number: 10995-1-AP Featured Product

Featured Product 308 Publications

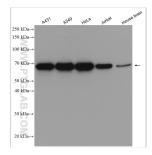


Basic Information	Catalog Number: GenBank Accession 10995-1-AP BC009322		Number:	Purification Method: Antigen affinity purification
	Size: 150ul , Concentration: 750 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG1446	GeneID (NCBI): 3303 UNIPROT ID: PODMV8 Full Name: heat shock 70kDa pr Calculated MW: 70 kDa Observed MW: 66-70 kDa	otein 1A	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 FC (Intra): 0.25 ug per 10^6 cells in a 100 µl suspension
Applications	WB, IHC, IF/ICC, FC (Intra), IP, ELISA WB : Av Cited Applications: cells, F		Positive Cor	ntrols:
			WB : A431 cells, human urine exosomes tissue, A549 cells, HeLa cells, Jurkat cells, mouse brain, HEK-293 cells, mouse kidney, rat kidney	
	Species Specificity:		IP : mouse b	rain tissue,
	human, mouse, rat		IHC : human	breast cancer tissue, human liver cance
	Cited Species: human, mouse, rat, pig, chicken, zebrafish, sheep, goat, ostrich, oyster		tissue, human normal colon, mouse skin tissue	
			IF/ICC : HeLa cells, HepG2 cells FC (Intra) : HeLa cells,	
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen	r e (mua). n	
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		-1	A
		med ID Journ 93005 J Nane	aı obiotechnology	Application WB
		00559 Andro	0,	WB
		56812 Oncos		WB
Storage	Storage: Stora at -20°C. Stable for one year aft Storage Buffer:	ter shipment.		
	Storage: Store at -20°C. Stable for one year aft	0% glycerol, pH7.3		
Storage *** 20ul sizes contain 0.1% BSA	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	0% glycerol, pH7.3		

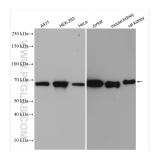
## Selected Validation Data



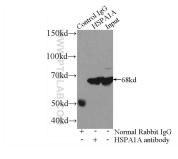
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 10995-1-AP (HSP70 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



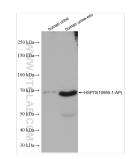
Various lysates were subjected to SDS PAGE followed by western blot with 10995-1-AP (HSP70 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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



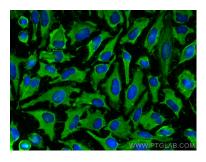
human urine exosomes tissue were subjected to SDS PAGE followed by western blot with 10995-1-AP (HSP70 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



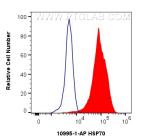
Immunohistochemical analysis of paraffinembedded human normal colon slide using 10995-1-AP (HSP70 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 lgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit lgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).