For Research Use Only

## HSP70 Recombinant antibody

Catalog Number:80735-1-RR

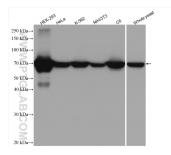


Basic Information	Catalog Number: 80735-1-RR	GenBank Accession Number: BC009322		Purification Method: Protein A purification		
	Concentration: 1000 ug/ml	GenelD (NCBI): 3303		CloneNo.: 4E10		
	Source: Rabbit	UNIPROT ID: PoDMV8 Full Name: heat shock 70kDa protein 1A Calculated MW: 70 kDa		Recommended Dilutions: WB 1:5000-1:20000 IHC 1:200-1:6000 IF/ICC 1:200-1:800		
	lsotype: IgG					
	Immunogen Catalog Number: AG1446					
		Observed MW: 70 kDa				
Applications	Tested Applications: WB, IHC, IF/ICC, ELISA Species Specificity:		Positive Controls: WB : HEK-293 cells, HeLa cells, K-562 cells, NIH/3T3 cells, C6 cells, the whole yeast IHC : human breast cancer tissue, human colon cancer tissue, human liver cancer tissue, human lung squamous cell carcinoma tissue			
					human, mouse, rat, yeast Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	
	IF/ICC : 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 also used as exosomal marker				
	Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	I 50% glycerol pH 7.3.			

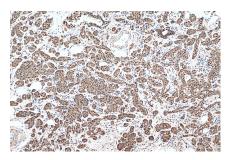
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

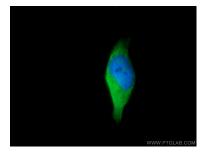
## Selected Validation Data



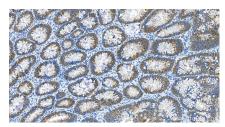
Various lysates were subjected to SDS PAGE followed by western blot with 80735-1-RR (HSP70 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



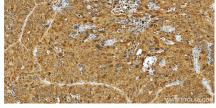
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 80735-1-RR (HSP70 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using HSP70 antibody (80735-1-RR, Clone: 4E10) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 80735-1-RR (HSP70 antibody) at dilution of 1:6000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung squamous cell carcinoma tissue slide using 80735-1-RR (HSP70 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).