For Research Use Only

HSP27 Monoclonal antibody

Catalog Number:66767-1-lg Featured Product 2 Publications

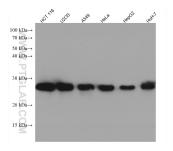
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Basic Information	Catalog Number: 66767-1-lg	GenBank Access BC012768	ion Number:	Purification Method: Protein G purification	
	Size:	GeneID (NCBI):		CloneNo.:	
	150ul , Concentration: 2686 ug/ml			3E7A1	
	Nanodrop and 1000 ug/ml by Bradford _{UNIPROT} method using BSA as the standard; P04792			Recommended Dilutions: WB 1:20000-1:100000	
	Source: Full Name: Mouse heat shock 27kDa protein 1			IHC 1:1000-1:4000 IF 1:50-1:500	
			a protein 1		
	Isotype: IgG1	Calculated MW: 19-23 kDa			
	Immunogen Catalog Number: AG27859	Observed MW: 27 kDa			
Applications	Tested Applications:	Positive Controls:		ontrols:	
			16 cells, HeLa cells, HSC-T6 cells, mouse 9, U2OS cells, A549 cells, HepG2 cells, HuH-7		
	Species Specificity: IHC : hum		n gliomas tissue, human liver tissue		
	human, mouse, rat, zebrafish IF : zebraf		sh retina, MCF-7 cells		
	Cited Species: human, mouse				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
		HSPB1, also known as heat shock protein 27 (Hsp27), belongs to the small heat shock protein family which is induced in response to environmental challenges or/and developmental transitions. It is also an anti-apoptotic protein that plays crucial roles in tumorigenesis and cell survival and is reported to be an independent prognosis marker for cancer. Recently HSPB1 has been found to be a valuable marker for melanoma. In addition to the predicted 27 kDa, an extra 50-55 kDa representing dimeric form of HSPB1 may also be observed (21353161).			
Background Information	induced in response to environme protein that plays crucial roles in t marker for cancer. Recently HSPB1	ntal challenges or/ar umorigenesis and ce has been found to be	nd developmental Il survival and is e a valuable mark	transitions. It is also an anti-apoptotic reported to be an independent prognosis er for melanoma. In addition to the	
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Notable Publications	induced in response to environme protein that plays crucial roles in t marker for cancer. Recently HSPB1 predicted 27 kDa, an extra 50-55 k Author I Xiao Zhang : Fangjia Yang : Storage: Storage: Stora at -20°C. Stable for one year Storage Buffer:	ntal challenges or/ar umorigenesis and ce has been found to be Da representing dim Pubmed ID 3 32945483 (0 38507480 5 after shipment. 50% glycerol pH 7.3	nd developmenta Il survival and is e a valuable mark eric form of HSPB Journal Dncol Rep Sci Adv	transitions. It is also an anti-apoptotic reported to be an independent prognosis er for melanoma. In addition to the 1 may also be observed (21353161). Application IF	

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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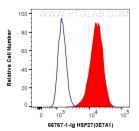
Selected Validation Data



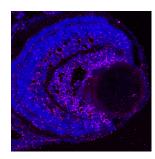
Various lysates were subjected to SDS PAGE followed by western blot with 66767-1-1g (HSPB1 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



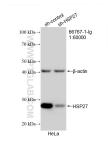
Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 66767-1-1g (HSPB1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



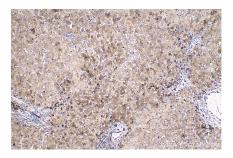
1X10^6 HepG2 cells were intracellularly stained with 0.5 ug Anti-Human HSP27 (66767-1-lg, Clone:3E7A1) (red) labeled with FlexAble CoraLite® Plus 555 Antibody Labeling Kit for Mouse IgG1 (KFA022), or 0.5 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Antibody staining on tissue sections of the zebrafish retina at 5 days post fertilisation (dpf) for Heatshock protein 27 (Hsp27;magenta); (#66767-1-Ig) Dilution 1:200. Tissue fixed overnight in 4% PFA; DAPI, blue. Data generated by Natalia Jaroszynska in Professor Ryan MacDonald's lab, University College London, UK.



WB result of HSP27 antibody (66767-1-Ig; 1:60000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HSP27 transfected HeLa cells.



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 66767-1-Ig (HSP27 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).