

HSP701L Polyclonal Antibody

Catalog Number PA5-29212

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	<div><div>Tested Applications</div><div>Dilution *</div></div>	
Class	Polyclonal		
Type	Antibody		
Immunogen	Recombinant fragment corresponding to a region within amino acids 11 and 278 of Human HSP70 1L		
Conjugate	Unconjugated	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Form	Liquid	Western Blot (WB)	1:500-1:3,000
Concentration	1 mg/mL	Immunocytochemistry (ICC/IF)	1:100-1:1,000
Purification	Antigen affinity chromatography	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: 293T, A431, H1299, HeLa, HepG2, Molt-4, Raji, mouse testis, rat testis, U87-MG, SK-N-SH, IMR32, SK-N-AS. Predicted reactivity: Mouse (95%), Rat (96%), Xenopus laevis (81%), Pig (96%), Bovine (95%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

In response to adverse changes in their environment, cells from many organisms increase the expression of a class of proteins referred to as heat shock proteins. One class of stress proteins, termed the "small heat shock proteins" is comprised of a diverse group of proteins from approximately 15 to >30 kDa, with a single form found in yeast and human cells and multiple related forms found in higher plants. A direct relationship between elevated stress protein expression and neoplasia has been suggested from studies on estrogen-induced proteins in breast cancer cells. In addition, Hsp27 exhibits rapid increased phosphorylation in response to various mitogens, tumor promoter (e. g. phorbol esters) and calcium ionophores. The expression of a 24 kDa protein was shown to correlate with steroid hormone receptor in cell lines, organs, and tumors. The 24 kDa estrogen-induced protein was found to be expressed at high levels in carcinoma of the breast. Another study has suggested that levels of the Hsp27 correlate with endometrial adenocarcinomas. Interestingly, the regulation of human Hsp27 by estrogens and heat shock is reminiscent of the ecdysteroid and heat shock activation of the drosophila Hsp20 genes.

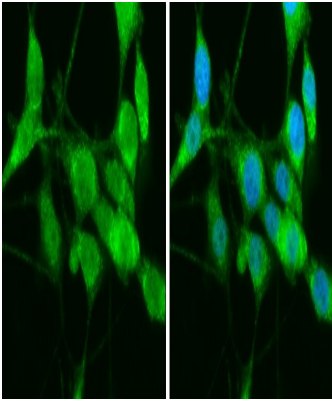
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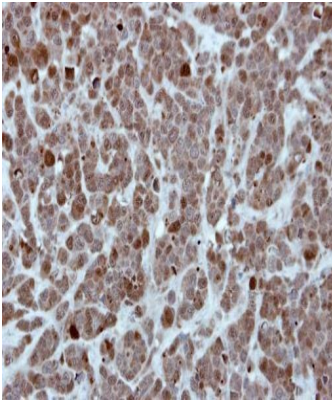
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Product Images For HSP701L Polyclonal Antibody



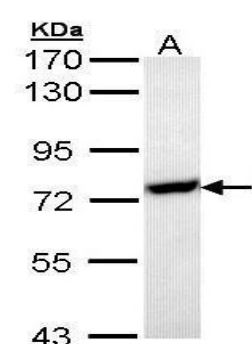
HSP701L Antibody (PA5-29212) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of HSP701L was performed in U87-MG cells fixed in 4% paraformaldehyde at RT for 15 min. Green: HSP701L Polyclonal Antibody (Product # PA5-29212) diluted at 1:400. Blue: Hoechst 33342 staining.



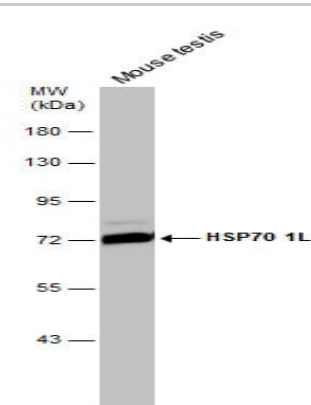
HSP701L Antibody (PA5-29212) in IHC (P)

Immunohistochemical analysis of paraffin-embedded H661 xenograft, using HSP70 1L (Product # PA5-29212) antibody at 1:500 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.



HSP701L Antibody (PA5-29212) in WB

Western Blot using HSP701L Polyclonal Antibody (Product # PA5-29212). Sample (30 µg of whole cell lysate). Lane A: Molt-4. 7.5% SDS PAGE. HSP701L Polyclonal Antibody (Product # PA5-29212) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



HSP701L Antibody (PA5-29212) in WB

Western Blot analysis of HSP701L was performed by separating 50 µg of Mouse tissue extracts by 7.5% SDS-PAGE. Proteins were transferred to a membrane and probed with a HSP701L Polyclonal Antibody (Product # PA5-29212) at a dilution of 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

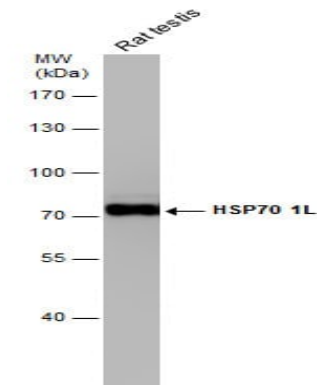
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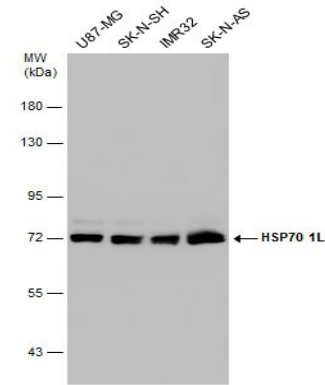
HSP701L Antibody (PA5-29212) in WB

Western Blot analysis of HSP701L was performed by separating 50 µg of Rat tissue extracts by 7.5% SDS-PAGE. Proteins were transferred to a membrane and probed with a HSP701L Polyclonal Antibody (Product # PA5-29212) at a dilution of 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



HSP701L Antibody (PA5-29212) in WB

Western Blot analysis of HSP701L was performed by separating 30 µg of various whole cell extracts by 7.5% SDS-PAGE. Proteins were transferred to a membrane and probed with a HSP701L Polyclonal Antibody (Product # PA5-29212) at a dilution of 1:1000 and a HRP-conjugated anti-rabbit IgG secondary antibody.



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