

Product Datasheet

Anti-HSP27 Rabbit pAb



For Research Use Only. Not For Use In Diagnostic Procedures

WL03656

Product Information

Product name	Anti-HSP27 Rabbit pAb	
Source	Rabbit	
Species reactivity	Mouse, Rat	
Tested applications	WB	1:500-1:1000
	IHC	1:200
	IF	1:200
Cellular localization	Cytoplasm, Nucleus, Cytoskeleton, Spindle	
Pack size	50/100/200/500/1000µl	
Storage	Store at -20°C. Avoid freeze/thaw cycles.	
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide	

General Information

Background

Heat shock protein 27 is one of the small HSPs that are constitutively expressed at different levels in various cell types and tissues. HSP27 is a constitutively expressed cytoplasmic protein that co-localizes to the nucleus upon stress induced by insult. Heat, cytokines and hormones are among the factors that stimulate the synthesis of HSP27. In vitro, HSP27 becomes highly phosphorylated following exposure to stress. HSP27 is phosphorylated at Ser15, Ser78, and Ser82 by MAPKAPK-2 as a result of the activation of the p38 MAP kinase pathway. The discovery that HSP27 is regulated by hormones such as estrogen has led to studies establishing a relationship between HSP27 and breast cancer.

Immunogen

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of HSP27.

Purification

Polyclonal antibody was purified by immunogen affinity chromatography.

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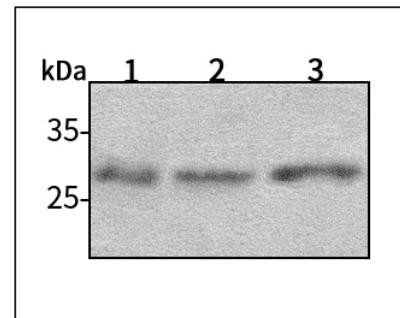
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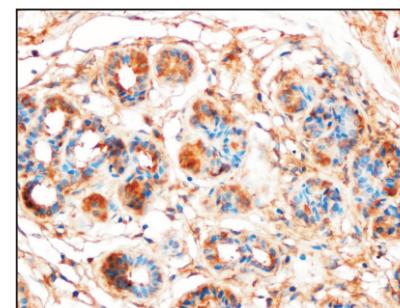
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Product Images



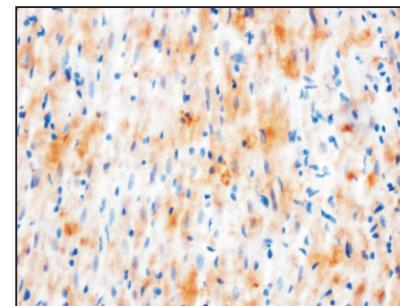
Western blot-Anti-HSP27 pAb

Lane 1: Mouse heart tissue lysate
Lane 2: Rat lung tissue lysate
Lane 3: Rat stomach tissue lysate
All lanes: Anti-HSP27 at 1:1000 dilution
Lysates/proteins at 20-50 µg per lane.
Predicted band size: 23 kDa
Observed band size: 27 kDa



Immunohistochemistry-Anti-HSP27 pAb

Immunohistochemical analysis of paraffin-embedded human breast cancer using anti-HSP27 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunohistochemistry-Anti-HSP27 pAb

Immunohistochemical analysis of paraffin-embedded rat heart using anti-HSP27 Rabbit Antibody at 1:200 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

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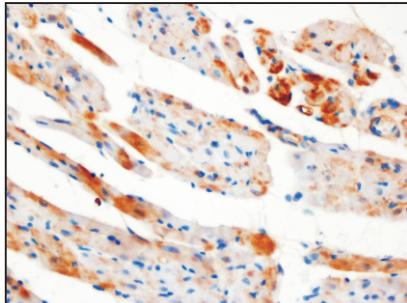
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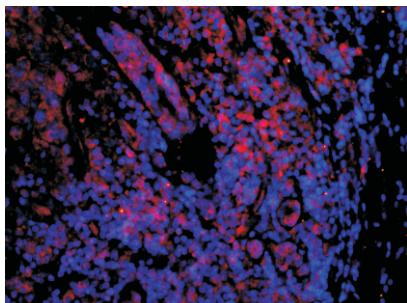
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Immunohistochemistry-Anti-HSP27 pAb

Immunohistochemical analysis of paraffin-embedded rat heart using anti-HSP27 Rabbit Antibody at 1:200 dilution.

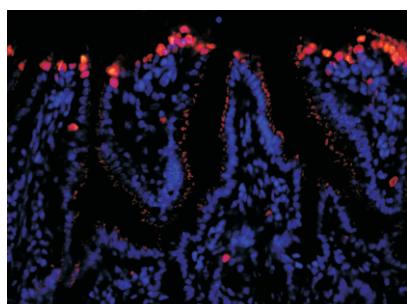
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.



Immunofluorescence-Anti-HSP27 pAb

Immunofluorescence analysis of paraffin-embedded human breast cancer using anti-HSP27 Rabbit Antibody at 1:200 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.



Immunofluorescence-Anti-HSP27 pAb

Immunofluorescence analysis of paraffin-embedded mouse intestine using anti-HSP27 Rabbit Antibody at 1:200 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.

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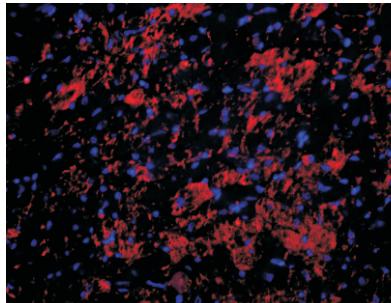
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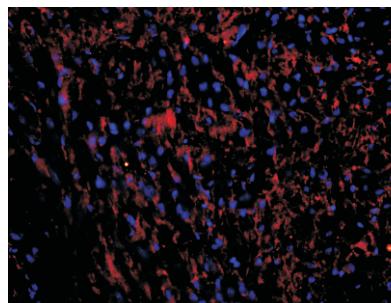
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Immunofluorescence-Anti-HSP27 pAb

Immunofluorescence analysis of paraffin-embedded rat heart using anti-HSP27 Rabbit Antibody at 1:200 dilution.

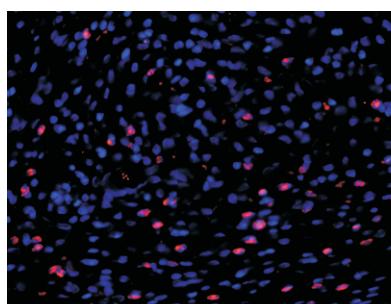
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.



Immunofluorescence-Anti-HSP27 pAb

Immunofluorescence analysis of paraffin-embedded rat heart using anti-HSP27 Rabbit Antibody at 1:200 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.



Immunofluorescence-Anti-HSP27 pAb

Immunofluorescence analysis of paraffin-embedded rat uterus using anti-HSP27 Rabbit Antibody at 1:200 dilution.

Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0.