

# Product Datasheet

## HSP27 Antibody (HSPB1/774) - Azide and BSA Free NBP2-48002-0.1mg

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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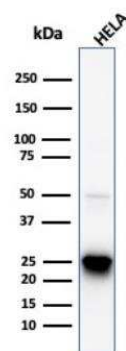
**NBP2-48002-0.1mg**

HSP27 Antibody (HSPB1/774) - Azide and BSA Free

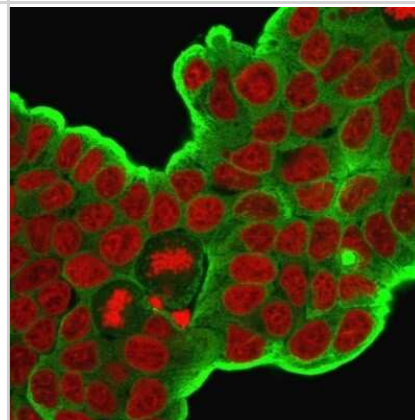
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at -20 to -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	HSPB1/774
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS
<b>Target Molecular Weight</b>	27 kDa
<b>Product Description</b>	
<b>Description</b>	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA. Also available at 200 ug/ml WITH BSA & azide (NBP2-44975).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Mouse
<b>Gene ID</b>	3315
<b>Gene Symbol</b>	HSPB1
<b>Species</b>	Human, Mouse, Rat, Chicken, Chimpanzee, Sheep
<b>Reactivity Notes</b>	Human, Chimpanzee, Sheep, Rat, Mouse, and Chicken. Others-not known.
<b>Specificity/Sensitivity</b>	It recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (hsp27). Hsp27 was recently found to be identical to the estrogen-induced protein. About 50% of breast carcinomas are positive for hsp27 especially those that are also positive for estrogen and/or progesterone receptor. HSP27 has also been implicated in drug resistance in cancer cells.
<b>Immunogen</b>	Recombinant human HSP27 protein (Uniprot: P04792)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 0.25 - 0.5 ug/ml, Flow Cytometry 0.5 - 1 ug/million cells in 0.1 ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 0.5 - 1.0 ug/ml, Immunofluorescence 0.5 - 1.0 ug/ml, CyTOF-ready
<b>Application Notes</b>	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

## Images

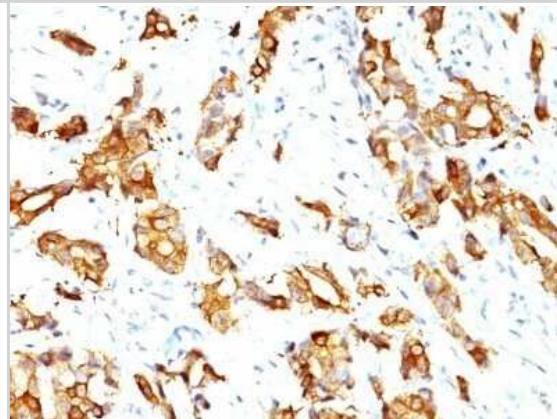
Western Blot: HSP27 Antibody (HSPB1/774) - Azide and BSA Free [NBP2-48002] - Western Blot Analysis of HeLa cell lysate using HSP27 MAbs (HSPB1/774).



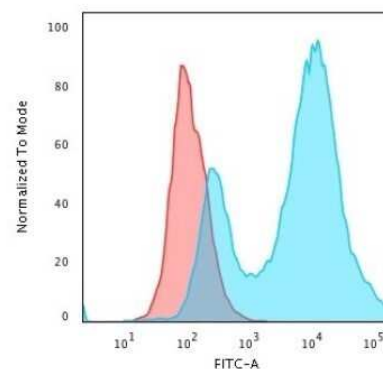
Immunocytochemistry/Immunofluorescence: HSP27 Antibody (HSPB1/774) - Azide and BSA Free [NBP2-48002] - Immunofluorescence Analysis of PFA-fixed MCF-7 cells labeling HSP27 with HSP27 Antibody (HSPB1/774) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot (Red)



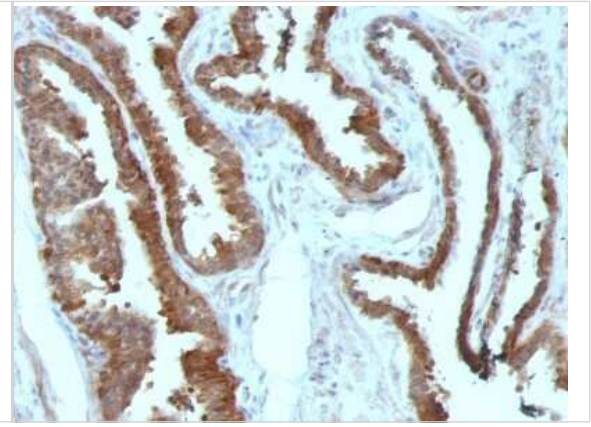
Immunohistochemistry-Paraffin: HSP27 Antibody (HSPB1/774) - Azide and BSA Free [NBP2-48002] - Human Breast Carcinoma stained with HSP27 Monoclonal Antibody (HSPB1/774)



Flow Cytometry: HSP27 Antibody (HSPB1/774) - Azide and BSA Free [NBP2-48002] - Flow Cytometric Analysis of PFA-fixed MCF-7 cells using HSP27 Antibody (HSPB1/774) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry-Paraffin: HSP27 Antibody (HSPB1/774) - Azide and BSA Free [NBP2-48002] - Human Prostate Carcinoma stained with HSP27 Monoclonal Antibody (HSPB1/774)





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### **Products Related to NBP2-48002-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-75477PEP	HSP27 Antibody Blocking Peptide

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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