

Product Datasheet

HSP27 Antibody / HSPB1 (orb2637734)

Description	This antibody 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 'p29' and '24K' 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.
Species/Host	Mouse
Reactivity	Human, Mouse, Rat
Conjugation	Unconjugated
Tested Applications	FACS, IF, IHC-P, WB
Immunogen	Partially purified human HSP27 (earlier called 24K) from breast cancer MCF-7 cells was used as the immunogen for this antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titrated up or down for optimal performance.1. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes.2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide

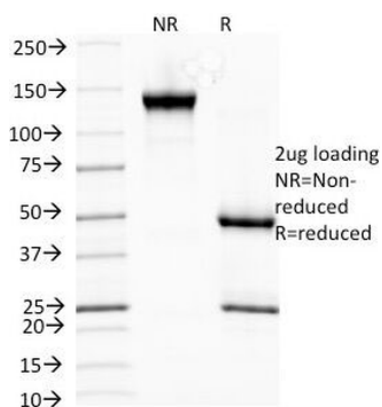
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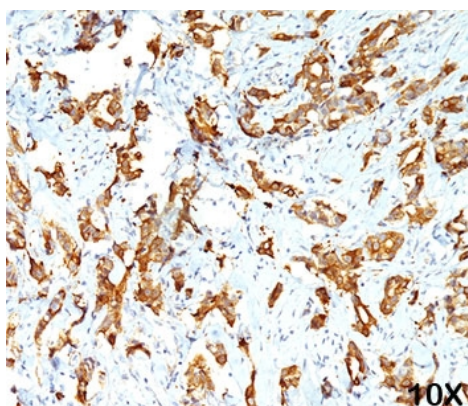
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Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	G3.1
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	P04792
Hazard Information	This HSP27 antibody is available for research use only.
Dilution Range	Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Expiration Date	12 months from date of receipt.



SDS-PAGE analysis of purified, BSA-free HSP27 antibody (clone G3.1) as confirmation of integrity and purity.



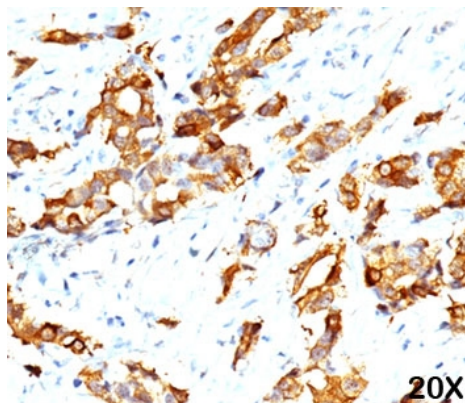
IHC testing of FFPE human breast carcinoma (10X) stained with HSP27 antibody (clone G3.1).

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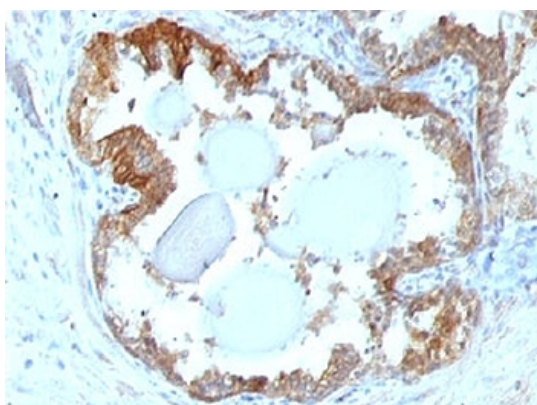
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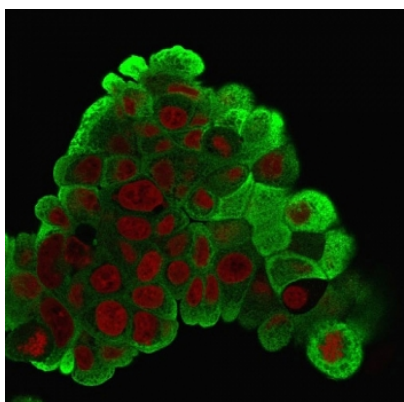
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IHC testing of FFPE breast carcinoma (20X) stained with HSP27 antibody (clone G3.1).



IHC testing of FFPE human prostate carcinoma and HSP27 antibody (clone G3.1).



Immunofluorescent staining of PFA-fixed human MCF7 cells with HSP27 antibody (clone G3.1, green) and Reddot nuclear stain (red).

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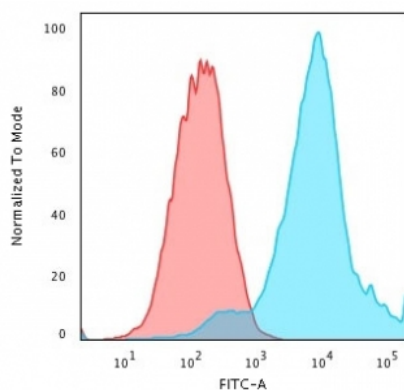
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Western blot testing of human HeLa cell lysate with HSP27 antibody (clone G3.1). Expected molecular weight: 24-29 kDa.



Flow cytometry testing of PFA-fixed human MCF7 cells with HSP27 antibody (clone G3.1); Red = isotype control, Blue = HSP27 antibody.

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