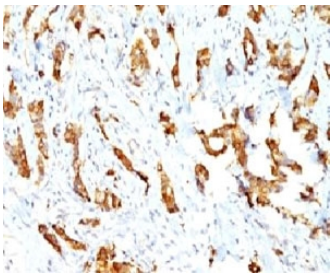
HSP27 Antibody [clone SPM252] (V9024)

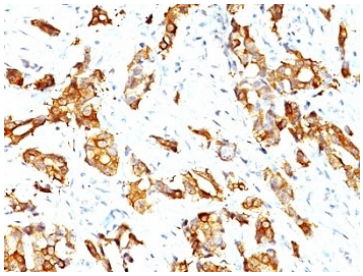
Catalog No.	Formulation	Size
V9024-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V9024-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V9024SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V9024IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

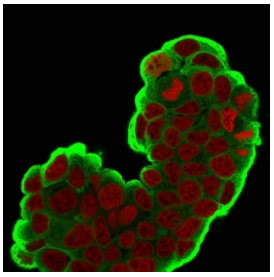
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SPM252
Purity	Protein G affinity chromatography
UniProt	P04792
Localization	Predominantly cytoplasmic with some nuclear
Applications	Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: 1-2ug/ml Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This HSP27 antibody is available for research use only.



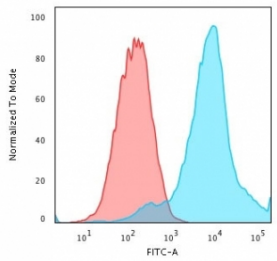
IHC: Formalin-fixed, paraffin-embedded human breast carcinoma stained with HSP27 antibody (clone SPM252).



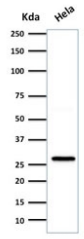
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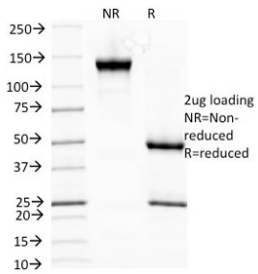
Immunofluorescent staining of PFA-fixed human MCF7 cells with HSP27 antibody (clone SPM252, green) and Reddot nuclear stain (red).



Flow cytometry testing of PFA-fixed human MCF7 cells with HSP27 antibody (clone SPM252); Red=isotype control, Blue= HSP27 antibody.



Western blot testing of human HeLa cell lysate with HSP27 antibody (clone SPM252). Expected molecular weight: 24-29 kDa.



SDS-PAGE analysis of purified, BSA-free HSP27 antibody (clone SPM252) as confirmation of integrity and purity.

Description

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 '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.

For an additional monoclonal antibody to HSPB1 with Protein Microarray Validated specificity data, see our HSPB1 Antibody / Heat Shock Protein Beta-1 Antibody page.

Application Notes

The optimal dilution of the HSP27 antibody for each application should be determined by the researcher.

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.

Immunogen

Partially purified HSP27 protein from the human breast cancer cell line MCF-7 was used as the immunogen for this HSP27 antibody.

Storage

Store the HSP27 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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