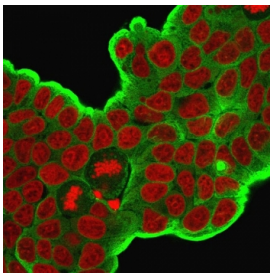
HSP27 Antibody [clone HSPB1/774] (V2593)

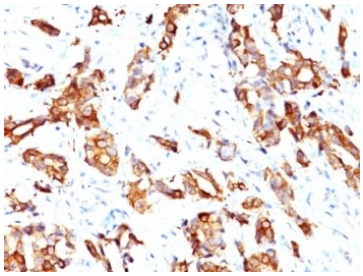
Catalog No.	Formulation	Size
V2593-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2593-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2593SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2593IHC-7ML	Prediluted 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

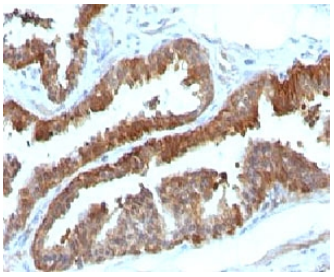
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HSPB1/774
Purity	Protein G affinity chromatography
UniProt	P04792
Localization	Predominantly cytoplasmic with some nuclear
Applications	Flow cytometry: 1-2ug/million cells Immunofluorescence: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 1-2ug/ml
Limitations	This HSP27 antibody is available for research use only.



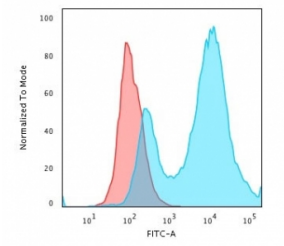
Immunofluorescent staining of PFA-fixed human MCF7 cells with HSP27 antibody (clone HSPB1/774, green) and Reddot nuclear stain (red).



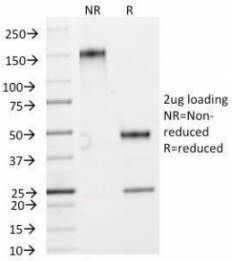
IHC: Formalin-fixed, paraffin-embedded human breast carcinoma stained with HSP27 antibody (clone HSPB1/774).



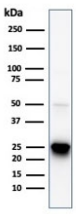
IHC: Formalin-fixed, paraffin-embedded human prostate carcinoma stained with HSP27 antibody (clone HSPB1/774).



Flow cytometry testing of PFA-fixed human MCF7 cells with HSP27 antibody (clone HSPB1/774); Red=isotype control, Blue= HSP27 antibody.



SDS-PAGE analysis of purified, BSA-free HSP27 antibody (clone HSPB1/774) as confirmation of integrity and purity.



Western blot testing of human HeLa cell lysate with HSP27 antibody. Expected molecular weight: 23~27 kDa.

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

Optimal dilution of the HSP27 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min
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

Recombinant human HSPB1 protein was used as the immunogen for the 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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