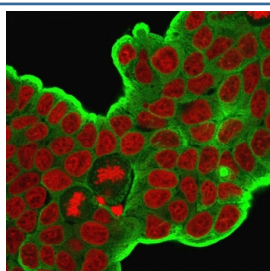


## HSP27 Antibody [clone HSPB1/774] (V2593)

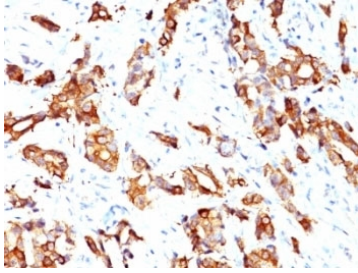
| Catalog No.    | Formulation                                                                                     | Size   |
|----------------|-------------------------------------------------------------------------------------------------|--------|
| V2593-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml 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](#)

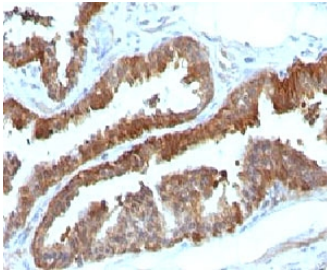
|                           |                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------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



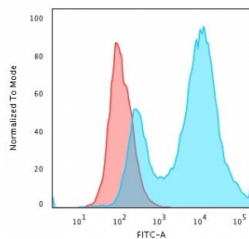
Immunofluorescent staining of PFA-fixed human MCF7 cells with HSP27 antibody (clone HSPB1/774, green) and Reddot nuclear stain (red).



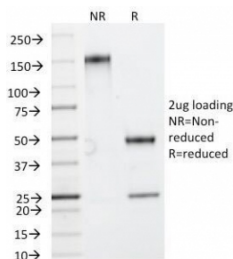
IHC: Formalin-fixed, paraffin-embedded human breast carcinoma stained with HSP27 antibody (clone HSPB1/774).



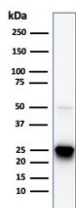
IHC: Formalin-fixed, paraffin-embedded human prostate carcinoma stained with HSP27 antibody (clone HSPB1/774).



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.

## 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).