

HSP27 Antibody [clone G3.1] (V2134)

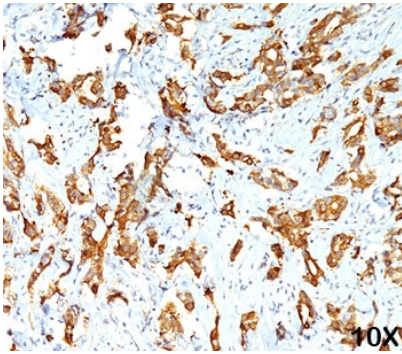
Catalog No.	Formulation	Size
V2134-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2134-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2134SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2134IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml



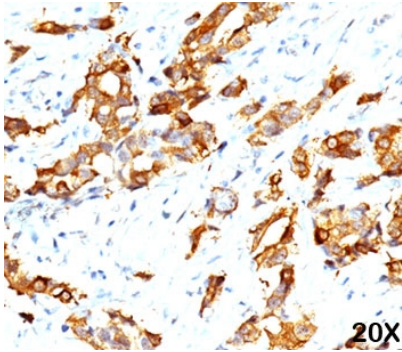
Citations (8)

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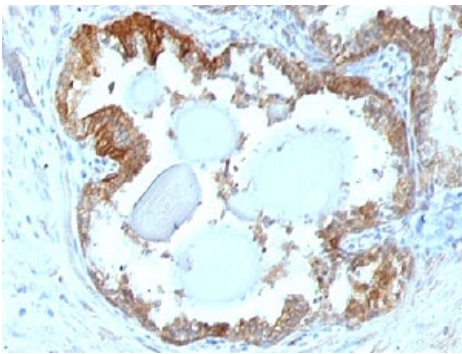
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	G3.1
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P04792
Localization	Predominantly cytoplasmic with some nuclear
Applications	Flow cytometry : 1-2ug/10 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.



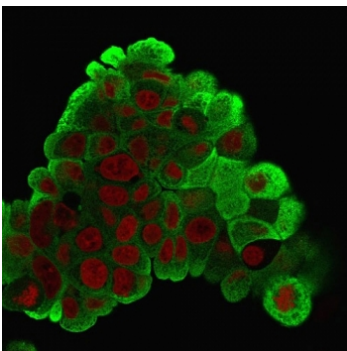
IHC testing of FFPE human breast carcinoma (10X) stained with HSP27 antibody (clone G3.1).



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



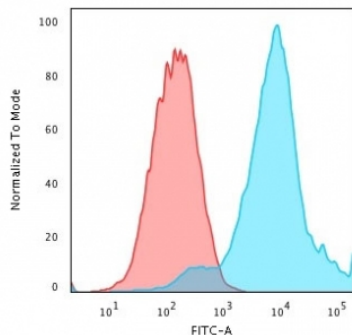
IHC testing of FFPE human prostate carcinoma and HSP27 antibody (clone G3.1).



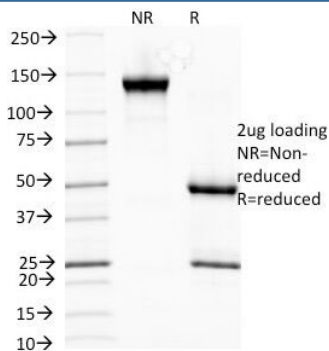
Immunofluorescent staining of PFA-fixed human MCF7 cells with HSP27 antibody (clone G3.1, green) and Reddot nuclear stain (red).



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.



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

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.

Immunogen

Partially purified human HSP27 (earlier called 24K) from breast cancer MCF-7 cells was used as the immunogen for this antibody.

Storage

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

References (1)