

HSP27 (Heat Shock Protein 27) Antibody

Mouse Monoclonal Antibody [Clone SPM252]

Catalog No	Format	Size
3315-MSM1X-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3315-MSM1X-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3315-MSM1X-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

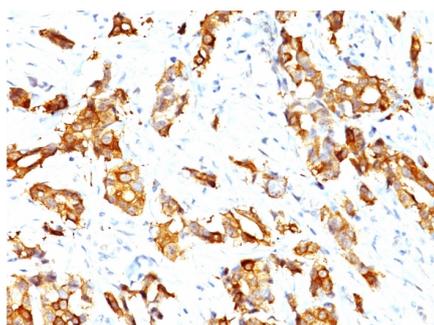
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

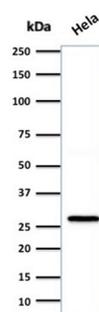
Clone	SPM252
Gene Name	HSPB1
Immunogen	Partially purified hsp27 (earlier called 24K) protein from breast cancer MCF-7 cells.
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	27kDa
Cellular Localization	Cytoplasm, Cytoskeleton, Nucleus, Spindle
Species Reactivity	Chicken, Chimpanzee, Human, Monkey, Mouse, Rat, Sheep
Positive Control	especially those that are positive for ER and/or PgR., MCF-7 or HeLa cells. ~50% of breast carcinomas are positive for hsp27

*Optimal dilution for a specific application should be determined.

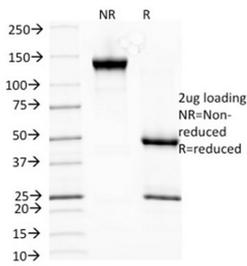
Product Images for HSP27 (Heat Shock Protein 27) Antibody



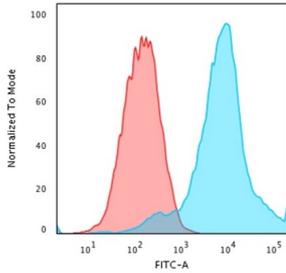
Formalin-fixed, paraffin-embedded human breast carcinoma stained with HSP27 Mouse Monoclonal Antibody (SPM252).



Western blot analysis of HeLa cell lysate using HSP27 Mouse Monoclonal Antibody (SPM252).



SDS-PAGE Analysis Purified HSP27 Mouse Monoclonal Antibody (SPM252). Confirmation of Integrity and Purity of Antibody.



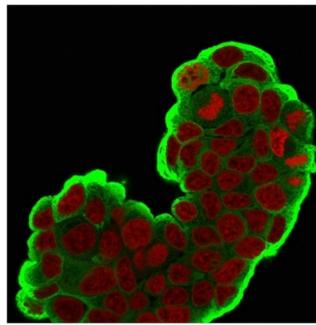
Flow Cytometric Analysis of PFA-fixed MCF-7 cells using HSP27 Mouse Monoclonal Antibody (SPM252) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

Specificity & Comments

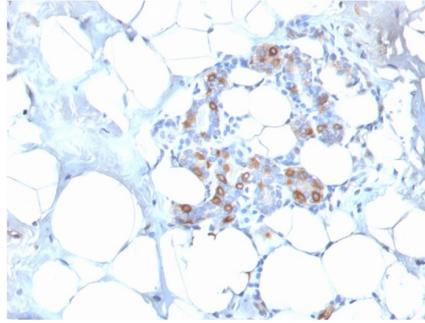
It recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (hsp27). Hsp27 was recently found to be identical to the estrogen-induced p29 and 24K protein. About 50% of breast carcinomas are positive for hsp27 especially those that are also positive for estrogen and/or progesterone receptor. HSP27 has also been implicated in drug resistance in cancer cells.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.



Immunofluorescence Analysis of PFA-fixed MCF-7 cells labeling HSP27. HSP27 Mouse Monoclonal Antibody (SPM252) followed by goat anti-mouse IgG-CF488 (green). Nuclear counterstain is RedDot.



Formalin-fixed, paraffin-embedded human breast carcinoma stained with HSP27 Mouse Monoclonal Antibody (SPM252).

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

BBB VCAM-1 Signaling, MAPK Signaling, Ovarian Cancer, Signal Transduction