

## Product Datasheet

### HSP27 Antibody (PerCP) (orb147521)

|                             |                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog Number</b>       | orb147521                                                                                                                                         |
| <b>Category</b>             | Antibodies                                                                                                                                        |
| <b>Description</b>          | Mouse monoclonal to Hsp27 (PerCP). Hsp27s belong to an abundant and ubiquitous family of Hsp27s belong to an abundant and ubiquitous family of... |
| <b>Target</b>               | HSP27                                                                                                                                             |
| <b>Clonality</b>            | Monoclonal                                                                                                                                        |
| <b>Species/Host</b>         | Mouse                                                                                                                                             |
| <b>Isotype</b>              | IgG2b Kappa                                                                                                                                       |
| <b>Conjugation</b>          | PerCP                                                                                                                                             |
| <b>Reactivity</b>           | Human                                                                                                                                             |
| <b>Concentration</b>        | 1 mg/ml                                                                                                                                           |
| <b>Buffer/Preservatives</b> | 95.46mM Phosphate, 2.48mM MES and 2mM EDTA                                                                                                        |
| <b>Purification</b>         | Protein G Purified                                                                                                                                |
| <b>Immunogen</b>            | Full length human HSP27                                                                                                                           |
| <b>UniProt ID</b>           | <b>P04792</b>                                                                                                                                     |
| <b>MW</b>                   | 27kDa                                                                                                                                             |
| <b>Tested applications</b>  | ELISA, FC, ICC, IF, IHC, IP, WB                                                                                                                   |
| <b>Dilution range</b>       | WB (1:2000), ICC/IF (1:100)                                                                                                                       |

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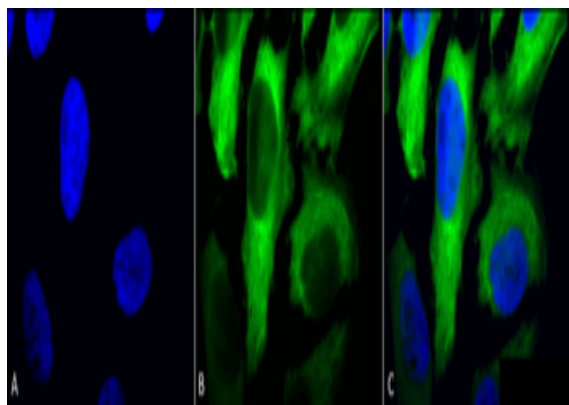
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|                          |                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application notes</b> | 0.5 µg/ml was sufficient for detection of HSP27 in 10 µg of HeLa lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody. |
| <b>Specificity</b>       | Detects ~27kDa. Has no cross-reactivity to Alpha B crystallin. Very limited cross-reactivity to other species.                                                       |
| <b>Clone Number</b>      | 5D12-A12                                                                                                                                                             |
| <b>Storage</b>           | Conjugated antibodies should be stored according to the product label                                                                                                |
| <b>Note</b>              | For research use only                                                                                                                                                |
| <b>Entrez</b>            | <b>3315</b>                                                                                                                                                          |
| <b>NCBI</b>              | <b>NP_001531.1</b>                                                                                                                                                   |
| <b>Expiration Date</b>   | 12 months from date of receipt.                                                                                                                                      |



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp27 Monoclonal Antibody, Clone 5D12-A3. Tissue: Heat Shocked cervical cancer cells (HeLa). Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Mouse Anti-Hsp27 Monoclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Cytoplasm. Nucleus. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-Hsp27 Antibody. (C) Composite. Heat Shocked at 42°C for 1h.

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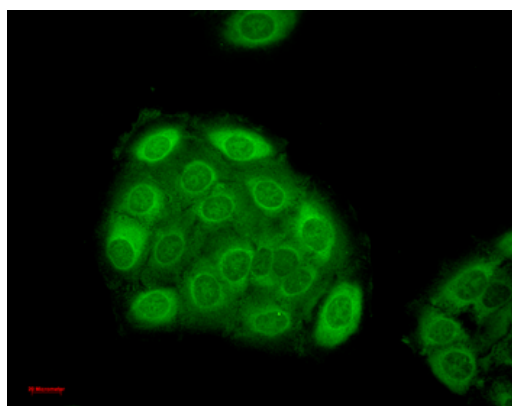
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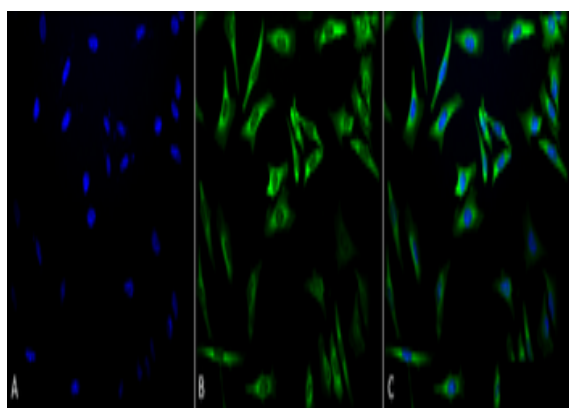
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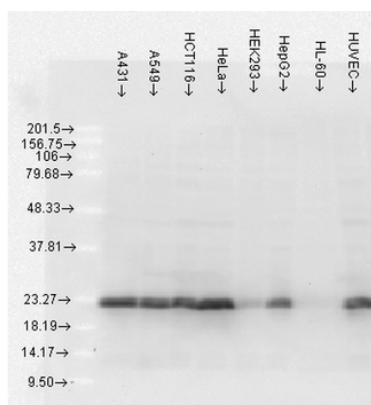
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Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp27 Monoclonal Antibody, Clone 5D12-A3. Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-Hsp27 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Dull heterogeneous staining, some perinuclear, some nuclear and some cytoplasmic staining.



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Western Blot analysis of Human Cell lysates showing detection of Hsp27 protein using Mouse Anti-Hsp27 Monoclonal Antibody, Clone 5D12-A3. Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp27 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

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