

Hsp27 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10069**Specification**

Hsp27 Antibody - Product Information

Application	WB, IF, IP
Primary Accession	P04792.2
Other Accession	BAB17232
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

Hsp27 Antibody - Additional Information

Application & Usage	Western blotting (1-2 µg/ml), immunoprecipitation (5-10 µg/ml), immunocytochemistry (10-15 µg/ml), and ELISA (1 µg/ml). However, the optimal conditions should be determined individually. The antibody detects a 27 kDa protein, corresponding to the apparent molecular mass of Hsp27 on SDS-PAGE immunoblots, in samples from human, monkey, dog (weakly) and pig (weakly) origins.
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Other Names

HSPB1, CMT2F, DKFZp586P1322, HS.76067, HSP27, HSP28, Hsp25

Target/Specificity

Hsp27

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (200 µg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

Hsp27 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Hsp27 Antibody - Protein Information**Hsp27 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Hsp27 Antibody - Images**Hsp27 Antibody - Background**

Human Hsp27, mouse Hsp25 and $\alpha\beta$ -crystallin are part of a diverse family of small heat shock proteins which are produced in all organisms. They function as chaperone-like proteins by binding unfolded polypeptides and preventing uncontrolled protein aggregation. Hsp27 is believed to exist mainly as oligomers of as many as 8-40 Hsp27 protein monomers in cells and data suggests that the large oligomers of Hsp27 have a chaperone-like activity by serving as a site where unfolding proteins may bind until ATP and Hsp70-dependent refolding can occur. Hsp27 is believed to protect cells by enhancing cellular glutathione levels and elevated glutathione levels have been measured in cells overexpressing Hsp27. Data from studies using wild-type Hsp27 and mutant forms in which the serine phosphorylation sites were mutated to alanines, glycines or aspartates, have shown that cellular glutathione levels depend on the oligomerization of Hsp27. Recent findings indicate that Hsp27 is also a negative regulator of cytochrome c-dependent activation of procaspase-3.