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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.**

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 Cytomety
- Cell Culture

Hsp27 Antibody - Images

Hsp27 Antibody - Background

Human Hsp27, mouse Hsp25 and αβ-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 s µggests 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.