

Hsp27 Blocking Peptide
Catalog # PBV10041b**Specification**

Hsp27 Blocking Peptide - Product Information

Primary Accession	P42930
Gene ID	24471
Calculated MW	22893

Hsp27 Blocking Peptide - Additional Information

Application & Usage	The peptide is used for blocking the antibody activity of Hsp27. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C
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Other Names

Heat shock protein beta-1, HspB1, Heat shock 27 kDa protein, HSP 27, Hspb1, Hsp27

Target/Specificity

Hsp27

Formulation

50 µg (0.2 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

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

Hsp27 Blocking Peptide - Protein Information

Name Hspb1

Synonyms Hsp27

Function

Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding- competent state. Plays a role in stress resistance and actin organization. Through its molecular chaperone activity may regulate numerous biological processes including the phosphorylation and the axonal transport of neurofilament proteins.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P04792}. Nucleus {ECO:0000250|UniProtKB:P04792}. Cytoplasm, cytoskeleton, spindle {ECO:0000250|UniProtKB:P04792}. Note=Cytoplasmic in interphase cells Colocalizes with mitotic spindles in mitotic cells. Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles {ECO:0000250|UniProtKB:P04792}

Tissue Location

Expressed in a variety of tissues. High levels in lung, adrenal, xiphoid, adipose tissue, heart and striated and smooth muscle, lower levels in the CNS. Adult levels are much higher in the slow-twitch soleus muscle than in the fast-twitch rectus femoris and extensor digitorum muscles.

Hsp27 Blocking Peptide - 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 Blocking Peptide - Images