

**Hsp60 Blocking Peptide**  
**Catalog # PBV10042b****Specification**

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**Hsp60 Blocking Peptide - Product Information**

Primary Accession	<a href="#">P10809</a>
Other Accession	<a href="#">ACE06961</a>
Gene ID	3329
Calculated MW	61055

**Hsp60 Blocking Peptide - Additional Information****Gene ID** 3329**Application & Usage**

The peptide is used for blocking the antibody activity of Hsp60. 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.

**Other Names**

60 kDa heat shock protein, mitochondrial, 60 kDa chaperonin, Chaperonin 60, CPN60, Heat shock protein 60, HSP-60, Hsp60, HuCHA60, Mitochondrial matrix protein P1, P60 lymphocyte protein, HSPD1, HSP60

**Target/Specificity**

Hsp60

**Formulation**

50 µg (0.5mg/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**

Hsp60 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

**Hsp60 Blocking Peptide - Protein Information****Name** HSPD1**Synonyms** HSP60

**Function**

Chaperonin implicated in mitochondrial protein import and macromolecular assembly. Together with Hsp10, facilitates the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix (PubMed:<a href="http://www.uniprot.org/citations/1346131" target="\_blank">1346131</a>, PubMed:<a href="http://www.uniprot.org/citations/11422376" target="\_blank">11422376</a>). The functional units of these chaperonins consist of heptameric rings of the large subunit Hsp60, which function as a back- to-back double ring. In a cyclic reaction, Hsp60 ring complexes bind one unfolded substrate protein per ring, followed by the binding of ATP and association with 2 heptameric rings of the co-chaperonin Hsp10. This leads to sequestration of the substrate protein in the inner cavity of Hsp60 where, for a certain period of time, it can fold undisturbed by other cell components. Synchronous hydrolysis of ATP in all Hsp60 subunits results in the dissociation of the chaperonin rings and the release of ADP and the folded substrate protein (Probable).

**Cellular Location**

Mitochondrion matrix.

**Hsp60 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](#)

**Hsp60 Blocking Peptide - Images**