

**Phospho-HSPA1A(Y41) Antibody Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP3419a****Specification**

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**Phospho-HSPA1A(Y41) Antibody Blocking peptide - Product Information**Primary Accession [P08107](#)**Phospho-HSPA1A(Y41) Antibody Blocking peptide - Additional Information****Other Names**

Heat shock 70 kDa protein 1A/1B, Heat shock 70 kDa protein 1/2, HSP70-1/HSP70-2, HSP701/HSP702, HSPA1A, HSPA1, HSX70

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP3419a](/products/AP3419a) was selected from the region of human Phospho-HSPA1A-pY41. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Phospho-HSPA1A(Y41) Antibody Blocking peptide - Protein Information****Phospho-HSPA1A(Y41) Antibody Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**Phospho-HSPA1A(Y41) Antibody Blocking peptide - Images****Phospho-HSPA1A(Y41) Antibody Blocking peptide - Background**

HSPA1A is a member of the heat shock protein 70 family. In conjunction with other heat shock proteins, this protein stabilizes existing proteins against aggregation and mediates the folding of newly translated proteins in the cytosol and in organelles. It is also involved in the ubiquitin-proteasome pathway through interaction with the AU-rich element RNA-binding protein 1. The gene for this protein is located in the major histocompatibility complex class III region, in a

cluster with two closely related genes which encode similar proteins.

#### **Phospho-HSPA1A(Y41) Antibody Blocking peptide - References**

Mueller, T., et al., Transplantation 78(2):292-295 (2004). Fekete, A., et al., Pediatr. Res. 54(4):452-455 (2003). Broquet, A.H., et al., J. Biol. Chem. 278(24):21601-21606 (2003). Bruce, C.R., et al., Diabetes 52(9):2338-2345 (2003). Anwar, A., et al., J. Biol. Chem. 277(16):14060-14067 (2002).