

**HSP40 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AW5253**

**Specification**

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**HSP40 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">P25685</a>
Other Accession	<a href="#">NP_006136</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=38;M=38 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

**HSP40 Antibody - Additional Information**

**Gene ID** 3337

**Antigen Region**

Full length

**Other Names**

DNAJB1; DNAJ1; HDJ1; HSPF1; Dnaj homolog subfamily B member 1; Dnaj protein homolog 1; Heat shock 40 kDa protein 1; Human Dnaj protein 1

**Dilution**

WB~~ 1:1000

**Target/Specificity**

This HSP40 antibody is generated from rabbits immunized with a recombinant protein encoding full length of human HSP40.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HSP40 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**HSP40 Antibody - Protein Information**

**Name** DNAJB1

**Synonyms** DNAJ1, HDJ1, HSPF1**Function**

Interacts with HSP70 and can stimulate its ATPase activity. Stimulates the association between HSC70 and HIP. Negatively regulates heat shock-induced HSF1 transcriptional activity during the attenuation and recovery phase period of the heat shock response (PubMed:<a href="http://www.uniprot.org/citations/9499401" target="\_blank">9499401</a>). Stimulates ATP hydrolysis and the folding of unfolded proteins mediated by HSPA1A/B (in vitro) (PubMed:<a href="http://www.uniprot.org/citations/24318877" target="\_blank">24318877</a>).

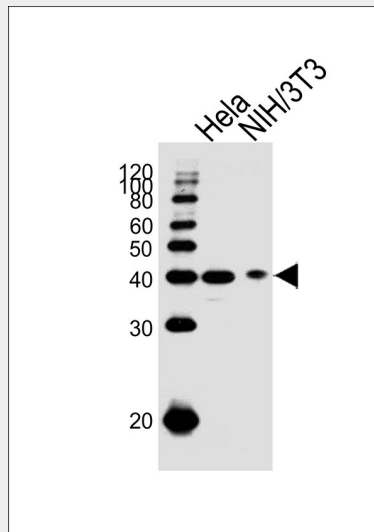
**Cellular Location**

Cytoplasm. Nucleus. Nucleus, nucleolus. Note=Translocates rapidly from the cytoplasm to the nucleus, and especially to the nucleoli, upon heat shock

**HSP40 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](#)

**HSP40 Antibody - Images**

Western blot analysis of lysates from HeLa, mouse NIH/3T3 cell line (from left to right), using HSP40 Antibody (Cat. #AW5253). AW5253 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody.

**HSP40 Antibody - Background**

DnaJ (Hsp40) belongs to the DnaJ-class of molecular chaperones with a C-terminal Zn finger domain. HSP40 (DnaJ) together with DnaK and GrpE form a molecular chaperone that is involved in

formation of protein complexes, protein folding, prevention of protein aggregation, and protein turnover and export. Several human neurodegenerative diseases involve the expansion of a polyglutamine within the disease proteins. Molecular chaperones such as HSP40 complexes can modulate polyglutamine pathogenesis. In transgenic *Drosophila* disease models of Machado-Joseph disease and Huntington disease Hdj1, the *Drosophila* homolog to human HSP40, demonstrates substrate specificity for polyglutamine proteins suppression in combination with other molecular chaperones of neurotoxicity, and altered solubility of mutant polyglutamine proteins.

#### **HSP40 Antibody - References**

Ohtsuka, K., et al., *Cell Stress Chaperones* 5(2):98-112 (2000). Hata, M., et al., *Biochim. Biophys. Acta* 1397(1):43-55 (1998). Hata, M., et al., *Genomics* 38(3):446-449 (1996). Ohtsuka, K., *Biochem. Biophys. Res. Commun.* 197(1):235-240 (1993).