

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

Specification

HSP40 Antibody - Product Information

Application	WB,E
Primary Accession	P25685
Other Accession	NP_006136
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:9499401). Stimulates ATP hydrolysis and the folding of unfolded proteins mediated by HSPA1A/B (in vitro) (PubMed:24318877).

Cellular Location

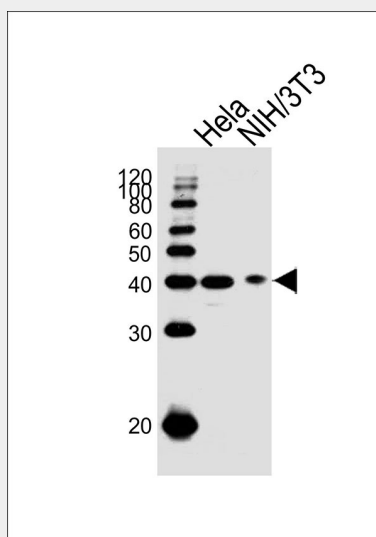
Cytoplasm. Nucleus. Nucleus, nucleolus. Note=Translocates rapidly from the cytoplasm to the nucleus, and especially to the nucleoli, upon heat shock

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).