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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).

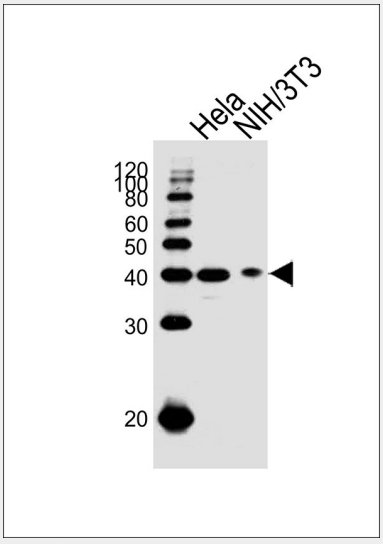
Cellular Location
Cytoplasm. Nucleus. Nucleus, nucleolus. Note=Translocates rapidly from the cytoplasm to the nucleus, and especially to the nucleoli, upon heat shock

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 Cytomety
- 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 chapterones 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).