

HSP40 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5253

Product Information

ApplicationWBPrimary AccessionP25685Other AccessionNP_006136ReactivityHuman, Mouse

Host Rabbit
Clonality Polyclonal
Calculated MW 38044
Isotype Rabbit IgG
Antigen Source HUMAN

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.

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

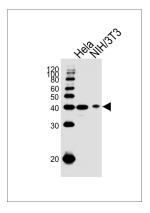
Background

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.

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).

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.