

Anti-Hsp40 Antibody
Catalog # ABO10530**Specification**

Anti-Hsp40 Antibody - Product Information

Application	WB, IHC
Primary Accession	P25685
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for DnaJ homolog subfamily B member 1(DNAJB1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Hsp40 Antibody - Additional Information

Gene ID 3337

Other Names

DnaJ homolog subfamily B member 1, DnaJ protein homolog 1, Heat shock 40 kDa protein 1, HSP40, Heat shock protein 40, Human DnaJ protein 1, hDj-1, DNAJB1, DNAJ1, HDJ1, HSPF1

Calculated MW

38044 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

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

Protein Name

DnaJ homolog subfamily B member 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Hsp40(317-332aa EFEVIFPERIPQTSRT), different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Contains 1 J domain.

Anti-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](http://www.uniprot.org/citations/9499401)). Stimulates ATP hydrolysis and the folding of unfolded proteins mediated by HSPA1A/B (in vitro) (PubMed: [24318877](http://www.uniprot.org/citations/24318877)).

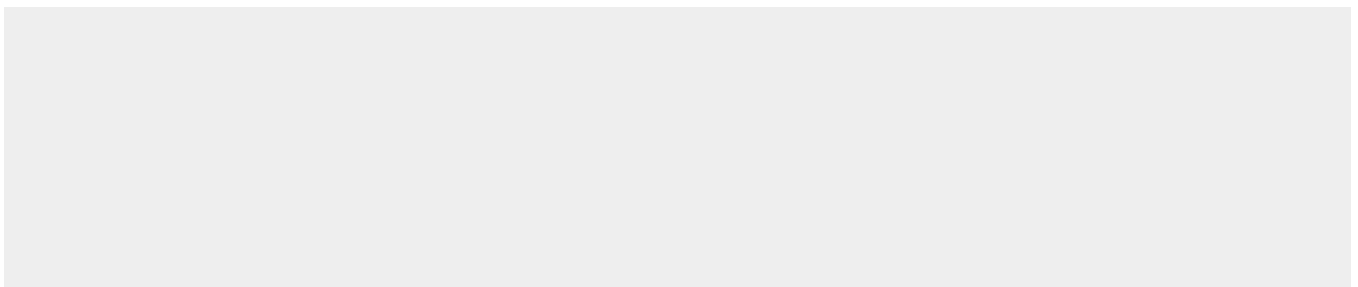
Cellular Location

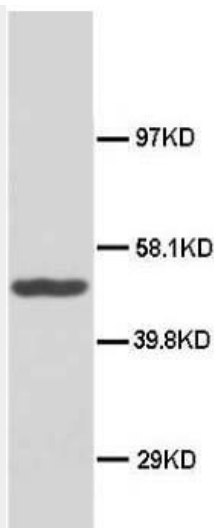
Cytoplasm. Nucleus. Nucleolus. Note=Translocates rapidly from the cytoplasm to the nucleus, and especially to the nucleoli, upon heat shock

Anti-Hsp40 Antibody - Protocols

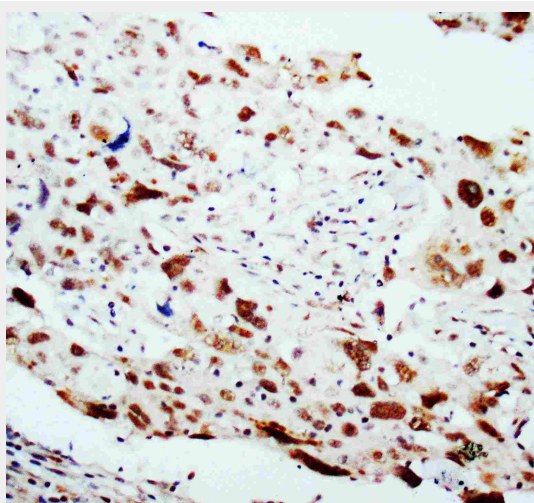
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Hsp40 Antibody - Images



Anti-Hsp40 antibody, ABO10530, Western blottingWB: HELA Cell Lysate



Anti-Hsp40 antibody, ABO10530, IHC(P)IHC(P): Human Mammary Cancer Tissue

Anti-Hsp40 Antibody - Background

The Hsp40(heat shock protein with molecular size of approximately 40 kDa) is one of the mammalian homologues of bacterial DnaJ heat shock protein. Ohtsuka(1993) isolated a cDNA encoding a 40-kD heat-shock protein designated HSPF1. The deduced 340-amino acid HSPF1 protein is 34% identical to E. coli DnaJ and 34% and 36% identical to HSJ1 and HSJ2, respectively. HSPF1 gene spans over 7 kb and contains 3 exons and 2 introns. HSPF1 gene is mapped to chromosome 19p13.2.