10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# DNAJA1 Antibody (Center)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**

**Catalog # AP5849c**

## Specification

### DNAJA1 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB, IHC-P, FC,E** |
| Primary Accession | P31689 |
| Other Accession | P63036, P63037, Q5E954, NP_001530.1 |
| Reactivity | **Human** |
| Predicted | **Bovine, Mouse, Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **44868** |
| Antigen Region | **294-323** |

### DNAJA1 Antibody (Center) - Additional Information

**Gene ID** 3301

**Other Names**
DnaJ homolog subfamily A member 1, DnaJ protein homolog 2, HSDJ, Heat shock 40 kDa protein 4, Heat shock protein J2, HSJ-2, Human DnaJ protein 2, hDj-2, DNAJA1, DNAJ2, HDJ2, HSJ2, HSPF4

**Target/Specificity**
This DNAJA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 294-323 amino acids from the Central region of human DNAJA1.

**Dilution**
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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**
DNAJA1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### DNAJA1 Antibody (Center) - Protein Information

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**Name** DNAJA1

**Synonyms** DNAJ2, HDJ2, HSJ2, HSPF4

**Function** Co-chaperone for HSPA8/Hsc70 (PubMed:10816573). Stimulates ATP hydrolysis, but not the folding of unfolded proteins mediated by HSPA1A (in vitro) (PubMed:24318877). Plays a role in protein transport into mitochondria via its role as co-chaperone. Functions as a co- chaperone for HSPA1B and negatively regulates the translocation of BAX from the cytosol to mitochondria in response to cellular stress, thereby protecting cells against apoptosis (PubMed:14752510). Promotes apoptosis in response to cellular stress mediated by exposure to anisomycin or UV (PubMed:24512202).

**Cellular Location**
Membrane; Lipid- anchor. Cytoplasm. Microsome. Nucleus. Cytoplasm, perinuclear region. Mitochondrion Note=Primarily associated with microsomes. A minor proportion is associated with mitochondria (By similarity). Primarily cytoplasmic. A minor proportion is associated with nuclei.

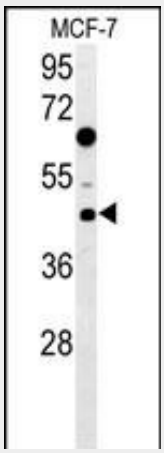
**Tissue Location**
Ubiquitous. Isoform 2 is highly expressed in testis and lung, but detected at low levels in thymus, prostate, colon and liver.

## DNAJA1 Antibody (Center) - Protocols

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

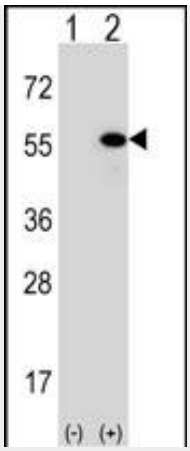
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## DNAJA1 Antibody (Center) - Images

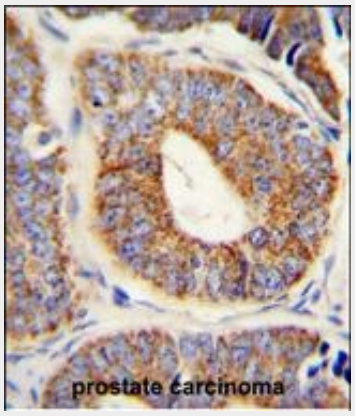



DNAJA1 Antibody (Center) (Cat. #AP5849c) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the DNAJA1 antibody detected the DNAJA1 protein (arrow).

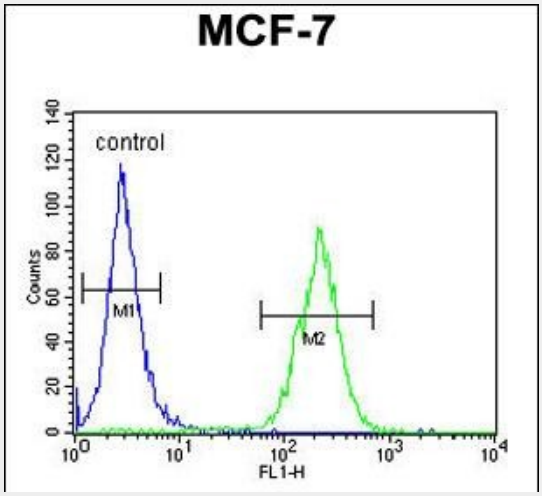
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Western blot analysis of DNAJA1 (arrow) using rabbit polyclonal DNAJA1 Antibody (Center) (Cat. #AP5849c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DNAJA1 gene.




DNAJA1 Antibody (Center) (Cat. #AP5849c) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the DNAJA1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.




DNAJA1 Antibody (Center) (Cat. #AP5849c) flow cytometric analysis of MCF-7 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.