

# DNAJA1 Recombinant Rabbit mAb

Catalog # AP100035

## Product Information

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|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>             | WB, IP                                                                                                                    |
| <b>Primary Accession</b>       | <a href="#">P31689</a>                                                                                                    |
| <b>Other Accession</b>         | <a href="#">P31689</a>                                                                                                    |
| <b>Host</b>                    | Rabbit                                                                                                                    |
| <b>Clonality</b>               | Recombinant                                                                                                               |
| <b>Calculated MW</b>           | 44868                                                                                                                     |
| <b>Physical State</b>          | Liquid                                                                                                                    |
| <b>Immunogen</b>               | A synthesized peptide derived from human DNAJA1                                                                           |
| <b>Epitope Specificity</b>     | 350-397/397                                                                                                               |
| <b>Isotype</b>                 | IgG                                                                                                                       |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                            |
| <b>Buffer</b>                  | 10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.          |
| <b>SIMILARITY</b>              | Contains 1 CR-type zinc finger. Contains 1 J domain.                                                                      |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| <b>Background Descriptions</b> | Co-chaperone of Hsc70. Seems to play a role in protein import into mitochondria.                                          |

## Additional Information

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| <b>Gene ID</b>     | 3301                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Other Names</b> | DJ-2; DjA1; HDJ2; HSDJ; HSJ-2; HSJ2; HSPF4; NEDD7; hDJ-2; DNJA1_HUMAN; DNAJA1; DnaJ protein homolog 2; Heat shock 40 kDa protein 4; Heat shock protein J2 (HSJ-2); Human DnaJ protein 2 (hDj-2); DNAJ2; DNJA1_MOUSE; DNJA1_RAT; DnaJ-like protein 1; Rdj1; DnaJ heat shock protein family (Hsp40) member A1; DnaJ (Hsp40) homolog, subfamily A, member 1; neural precursor cell expressed, developmentally down-regulated 7 |
| <b>Dilution</b>    | WB=1:500-2000,IP=1:20-50,Flow-Cyt=1:50-100,ICC/IF=1:50-200                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                                                                                                                                                                                                             |

## Protein Information

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| <b>Name</b>     | DNAJA1                   |
| <b>Synonyms</b> | DNAJ2, HDJ2, HSJ2, HSPF4 |

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Function</b>          | Co-chaperone for HSPA8/Hsc70 (PubMed: <a href="#">10816573</a> ). Stimulates ATP hydrolysis, but not the folding of unfolded proteins mediated by HSPA1A (in vitro) (PubMed: <a href="#">24318877</a> ). 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: <a href="#">14752510</a> ). Promotes apoptosis in response to cellular stress mediated by exposure to anisomycin or UV (PubMed: <a href="#">24512202</a> ). |
| <b>Cellular Location</b> | 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.                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Tissue Location</b>   | Ubiquitous. Isoform 2 is highly expressed in testis and lung, but detected at low levels in thymus, prostate, colon and liver.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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