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

# DNAJC9 Rabbit pAb

DNAJC9 Rabbit pAb
Catalog # AP55041

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF |
| **Primary Accession** | Q8WXX5 |
| **Reactivity** | Mouse, Rat |
| **Predicted** | Human, Dog, Pig, Rabbit, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 29910 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human DNAJC9 |
| **Epitope Specificity** | 161-260/260 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Contains 1 J domain. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | The DnaJ family comprises a group of chaperone proteins that contain a J domain and have diverse cellular localization and functions. DnaJ proteins play a critical role in the HSP 70 chaperone machine by interacting with HSP 70 to stimulate ATP hydrolysis and are also important mediators of proteolysis and protein degradation. DnaJC9 (DnaJ (Hsp40) homolog, subfamily C, member 9), also designated HDJC9, JDD1 or DnaJ protein SB73, is a 260 amino acid protein found at moderate levels in most tissues with highest expression in the germinal zone of the central nervous system, testis, ovary, renal cortex and fetal liver. A member of the DnaJ family, DnaJC9 contains one N-terminal J domain but lacks the typical G/F and zinc finger regions that are typical of DnaJ family members. DnaJC9 localiizes to nuclei under normal conditions but may be transported to cytoplasm and plasma membrane when exposed to heat shock. |

## Additional Information

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| **Gene ID** | 23234 |
| **Other Names** | DnaJ homolog subfamily C member 9, HDJC9, DnaJ protein SB73, DNAJC9 |
| **Dilution** | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |
| **Storage** | 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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| **Name** | DNAJC9 |
| **Function** | Acts as a dual histone chaperone and heat shock co-chaperone (PubMed:33857403). As a histone chaperone, forms a co-chaperone complex with MCM2 and histone H3-H4 heterodimers; and may thereby assist MCM2 in histone H3-H4 heterodimer recognition and facilitate the assembly of histones into nucleosomes (PubMed:33857403). May also act as a histone co-chaperone together with TONSL (PubMed:33857403). May recruit histone chaperones ASF1A, NASP and SPT2 to histone H3-H4 heterodimers (PubMed:33857403). Also plays a role as co-chaperone of the HSP70 family of molecular chaperone proteins, such as HSPA1A, HSPA1B and HSPA8 (PubMed:17182002, PubMed:33857403). As a co-chaperone, may play a role in the recruitment of HSP70-type molecular chaperone machinery to histone H3-H4 substrates, thereby maintaining the histone structural integrity (PubMed:33857403). Exhibits activity to assemble histones onto DNA in vitro (PubMed:33857403). |
| **Cellular Location** | Nucleus. Cytoplasm. Cell membrane. Note=Predominantly nuclear. Translocates to the cytoplasm and membrane after heat shock |
| **Tissue Location** | Expressed in heart, placenta, liver, skeletal muscle, kidney, pancreas, thymus, ovary, colon and peripheral blood |

## Background

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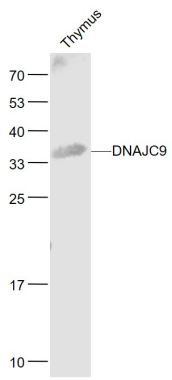
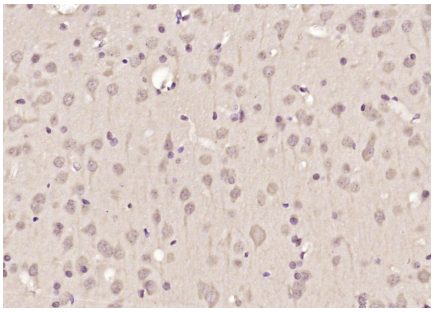
## Images




Sample:
Thymus (Mouse) Lysate at 40 ug
Primary: Anti- DNAJC9 (AP55041) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 30 kD
Observed band size: 35 kD

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3%



hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DNAJC9) Polyclonal Antibody, Unconjugated (AP55041) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.