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# DNAJB2 Polyclonal antibody

Catalog Number:10838-1-AP 8 Publications

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## Basic Information

Catalog Number:
10838-1-AP

Concentration:
1000 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1271

GenBank Accession Number:
BC011609

GeneID (NCBI):
3300

UNIPROT ID:
P25686

Full Name:
DnaJ (Hsp40) homolog, subfamily B, member 2

Calculated MW:
36 kDa

Observed MW:
36-40 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:1000-1:5000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:500-1:2000

## Applications

Tested Applications:
WB, IHC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

***Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0***

Positive Controls:

WB : mouse heart tissue, A431 cells, mouse skeletal muscle tissue, rat heart tissue, mouse brain tissue, rat brain tissue

IP : mouse brain tissue,

IHC : human stomach tissue,

## Background Information

The DNAJB2 (also known as HSJ1a, Heat-Shock Protein J1a) is a member of the DNAJ family of molecular chaperones which play important cellular roles in correct protein folding, in the response to protein misfolding, and in the degradation of misfolded proteins. It is expressed principally in the nervous system and is a key player in neuronal proteostasis maintenance. DNAJB2 has been proposed as a potent anti-aggregation chaperone for TDP-43, may play a role in the pathogenesis of ALS. DNAJB2 gene encodes two alternatively-spliced isoforms that differ in their C-terminus. The variant 1 form (V1 or HSJ1a) is expressed in both cytoplasm and nucleus, whereas the variant 2 form (V2 or HSJ1b) undergoes post-translational geranylgeranylation modification which mediates its attachment to the cytoplasmic side of the endoplasmic reticulum membrane. This antibody detects both isoforms of DNAJB2 with MW between 32-40 kDa. (PMID: 20395441)

## Notable Publications

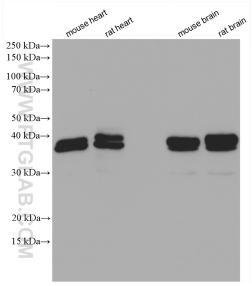
| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Paola Saveri | 35286755 | Eur J Neurol | WB,IHC |
| Brian G Drew | 24379352 | Diabetes | |
| Mohamed Alalem | 36077724 | Cancers (Basel) | WB |

## Storage

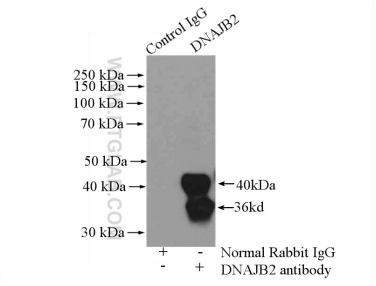
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

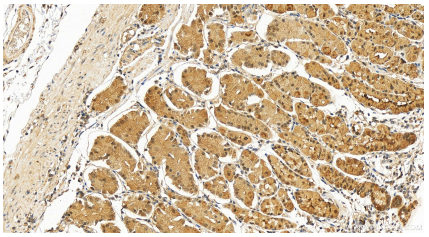
## Selected Validation Data




Various lysates were subjected to SDS PAGE followed by western blot with 10838-1-AP (DNAJB2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.




IP result of anti-DNAJB2 (IP:10838-1-AP, 4ug; Detection:10838-1-AP 1:1000) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 10838-1-AP (DNAJB2 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).