

Anti-HDJ2/DNAJA1 Antibody

Catalog Number: PA1597

About DNAJA1

DNAJA1 (DnaJ homolog subfamily A member 1), also called DJA1, HSDJ, HSPF4, is a protein that in humans is encoded by the DNAJA1 gene. The deduced 397-amino acid DNAJA1 protein is 32% identical to E. coli DnaJ, with the highest identity in the N-terminal region. Among the known DNAJ homologs in S. cerevisiae, DNAJA1 is most identical to YDJ1, which may be involved in the transport of certain proteins into the mitochondria and endoplasmic reticulum. Dja1 is expressed in mouse testis and prostate by immunohistochemical analysis and Western blot analysis. Transplantation experiments with fluorescence-tagged spermatogonia into Dja1 ^{-/-} mice revealed a primary defect of Sertoli cells in maintaining spermiogenesis at steps 8 and 9.

Overview

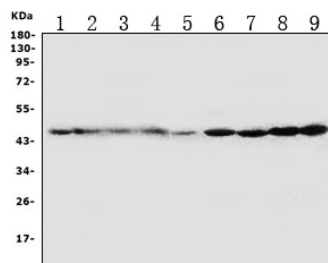
Product Name	Anti-HDJ2/DNAJA1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-HDJ2/DNAJA1 Antibody catalog # PA1597. Tested in IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P31689

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human HDJ2, identical to the related rat and mouse sequences.
Predicted Reactive Species	Chicken
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p> <p>Immunocytochemistry/Immunofluorescence, 5ug/ml, Human</p>

Anti-HDJ2/DNAJA1 Antibody (PA1597) Images



Anti-HDJ2 antibody, PA1597, Western blotting

All lanes: Anti HDJ2 (PA1597) at 0.5ug/ml

Lane 1: Rat Brain Tissue Lysate at 50ug

Lane 2: Rat Lung Tissue Lysate at 50ug

Lane 3: Mouse Brain Tissue Lysate at 50ug

Lane 4: Mouse Lung Tissue Lysate at 50ug

Lane 5: U87 Whole Cell Lysate at 40ug

Lane 6: A549 Whole Cell Lysate at 40ug

Lane 7: COLO320 Whole Cell Lysate at 40ug

Lane 8: A431 Whole Cell Lysate at 40ug

Lane 9: HT1080 Whole Cell Lysate at 40ug

Predicted bind size: 45KD

Observed bind size: 45KD

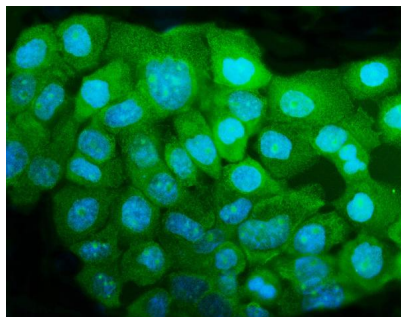


Figure 2. IF analysis of DNAJA1 using anti-DNAJA1 antibody (PA1597).

DNAJA1 was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-DNAJA1 Antibody (PA1597) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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