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antibody and ELISA experts

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Anti-DNAJC11 Antibody Picoband™

Catalog Number: A11307-1

About DNAJC11

DnaJ homolog subfamily C member 11 is a protein that in humans is encoded by the DNAJC11 gene. DNAJC11 is a member of the J proteins also known as HSP40 family of co-chaperones. Recently DNAJC11 has been found to interact with mitofilin, a mitochondrial inner membrane protein, indicating that it may be a molecular chaperone during mitochondrial protein import and folding.

Overview

Product Name	Anti-DNAJC11 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-DNAJC11 Antibody Picoband™ catalog # A11307-1. Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, Flow Cytometry, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q9NVH1

Technical Details

Immunogen	E.coli-derived human DNAJC11 recombinant protein (Position: N12-Q551).
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

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	If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.25 ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Flow Cytometry, 1-3 ug/1x10^6 cells, Human Direct ELISA, 0.1-0.5 ug/ml, Human

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Anti-DNAJC11 Antibody Picoband™ (A11307-1) Images

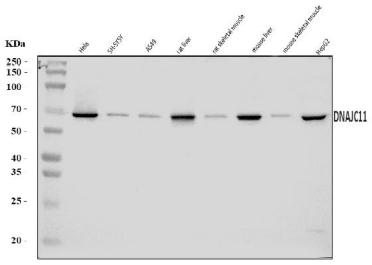

Figure 1. Western blot analysis of DNAJC11 using anti-DNAJC11 antibody (A11307-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human SH-SY5Y whole cell lysates,
Lane 3: human A549 whole cell lysates,
Lane 4: rat liver tissue lysates,
Lane 5: rat skeletal muscle tissue lysates,
Lane 6: mouse liver tissue lysates,
Lane 7: mouse skeletal muscle tissue lysates,
Lane 8: human HepG2 whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DNAJC11 antigen affinity purified polyclonal antibody (Catalog # A11307-1) at 0.25 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DNAJC11 at approximately 63 kDa. The expected band size for DNAJC11 is at 63 kDa.

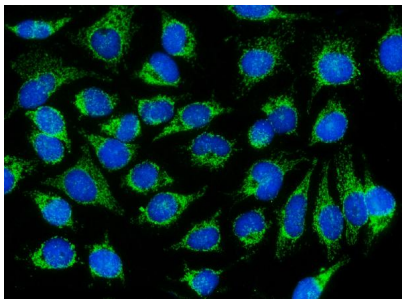

Figure 2. IF analysis of DNAJC11 using anti-DNAJC11 antibody (A11307-1).
DNAJC11 was detected in an immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-DNAJC11 Antibody (A11307-1) 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.

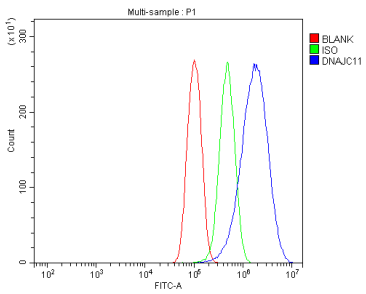

Figure 3. Flow Cytometry analysis of PC-3 cells using anti-DNAJC11 antibody (A11307-1).
Overlay histogram showing PC-3 cells stained with A11307-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DNAJC11 Antibody (A11307-1, 1 ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions.

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Unlabelled sample (Red line) was also used as a control.

Anti-DNAJC11 Antibody