

# Anti-DNAJC5 Antibody

## ER63138



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat, Green monkey, Pig
<b>Applications:</b>	WB, IF-Cell, FC(Intra)
<b>Molecular Wt:</b>	Predicted band size: 22 kDa

**Description:** DnaJ homolog subfamily C member 5, also known as cysteine string protein or CSP is a protein, that in humans encoded by the DNAJC5 gene. It was first described in 1990. In humans, the gene is located on the long arm of chromosome 20 (20q13.33) on the Watson (positive strand). The gene is 40,867 bases in length and the encoded protein has 198 amino acids with a predicted molecular weight of 22.149 kilodaltons (kDa). The weight of the mature protein is 34 kDa. This gene is highly conserved and found both in invertebrates and vertebrates. In humans, a pseudogene of this gene is located on the short arm of chromosome 8.

**Immunogen:** Recombinant protein within human DNAJC5 aa 151-198.

**Positive control:** HeLa (Human cervical adenocarcinoma cell) cell lysate, THP-1 (Human acute monoclonic leukemia cell) cell lysate, Hep G2 (Human liver cancer cell) cell lysate, NIH/3T3 (Mouse fibroblast) cell lysate, RAW264.7 (Mouse monocytic macrophage leukemia cell) cell lysate, PC-12 (Rat pheochromocytoma cell (undifferentiated)) cell lysate, C6 (Rat glioma cell) cell lysate, COS-1 (African green monkey kidney fibroblast) cell lysate, Mouse brain (P7) tissue lysate, Rat brain tissue lysate, Pig brain tissue lysate.

**Subcellular location:** Cytoplasm, cytosol, Membrane, Cytoplasmic vesicle, secretory vesicle, chromaffin granule membrane, Melanosome, Cell membrane.

**Database links:** SwissProt: Q9H3Z4 Human | P60904 Mouse | P60905 Rat

**Recommended Dilutions:**

<b>WB</b>	1:2,000
<b>IF-Cell</b>	1:100
<b>FC(Intra)</b>	1:200

**Storage Buffer:** 1\*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

**Purity:** Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

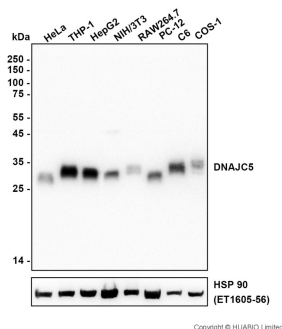
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## Images

**Fig1:** Western blot analysis of DNAJC5 on different lysates with Rabbit anti-DNAJC5 antibody (ER63138) at 1/2,000 dilution.

Lane 1: HeLa (Human cervical adenocarcinoma cell) cell lysate  
 Lane 2: THP-1 (Human acute monoclonal leukemia cell) cell lysate  
 Lane 3: Hep G2 (Human liver cancer cell) cell lysate  
 Lane 4: NIH/3T3 (Mouse fibroblast) cell lysate  
 Lane 5: RAW264.7 (Mouse monocytic macrophage leukemia cell) cell lysate  
 Lane 6: PC-12 (Rat pheochromocytoma cell (undifferentiated)) cell lysate  
 Lane 7: C6 (Rat glioma cell) cell lysate  
 Lane 8: COS-1 (African green monkey kidney fibroblast) cell lysate



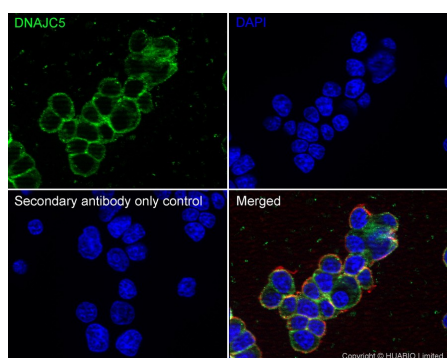
Lysates/proteins at 20 µg/Lane.  
 Exposure time: 20 seconds; ECL: K1801

Blocking: 5% NFDm/TBST, 1 hour at room temperature  
 Primary antibody: ER63138, 1/2,000 in primary antibody dilution buffer (K1803), overnight at 4 °C  
 Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDm/TBST, 1 hour at room temperature

Predicted band size: 22 kDa  
 Observed band size: 30 kDa

**Fig2:** Application: Immunocytochemistry (IF-cell)

Species: Rat  
 Sample: PC-12(Rat pheochromocytoma cell (undifferentiated))



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.  
 Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.  
 Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.  
 Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: ER63138, 1/100, overnight at 4 °C.  
 Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.  
 Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4 °C. The nuclear counterstain was DAPI (Blue).

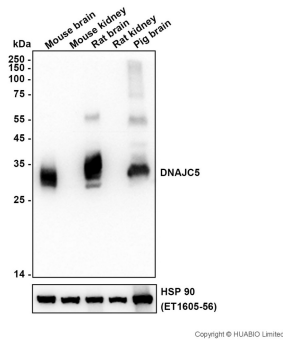
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**Fig3:** Western blot analysis of DNAJC5 on different lysates with Rabbit anti-DNAJC5 antibody (ER63138) at 1/2,000 dilution.

Lane 1: Mouse brain (P7) tissue lysate  
 Lane 2: Mouse kidney tissue lysate  
 Lane 3: Rat brain tissue lysate  
 Lane 4: Rat kidney tissue lysate  
 Lane 5: Pig brain tissue lysate

Lysates/proteins at 20 µg/Lane.

Exposure time: 14 seconds; ECL: K1801

Negative expression of DNAJC5 protein in kidney is consistent with the predicted expression pattern.

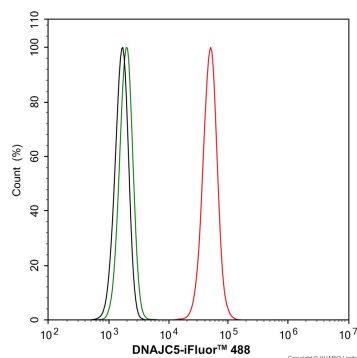
Blocking: 5% NFDM/TBST, 1 hour at room temperature

Primary antibody: ER63138, 1/2,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDM/TBST, 1 hour at room temperature

Predicted band size: 22 kDa

Observed band size: 30 kDa



**Fig4:** Application: Flow Cytometry (Intra)

Species: Rat

Sample: PC-12 (Rat pheochromocytoma cells (undifferentiated))

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Tween-20, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 15 minutes at room temperature.

Antibody dilution buffer: 1x PBS.

Primary antibody: ER63138(1/200, Red) compared with Rabbit IgG Isotype Control (HA722127, Green), 15 minutes at room temperature.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 15 minutes at room temperature.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. Lee J et al. Safeguarding Lysosomal Homeostasis by DNAJC5/CSPalpha-Mediated Unconventional Protein Secretion and Endosomal Microautophagy. *Front Cell Dev Biol.* 2022 May
2. Chen C et al. DNAJC5 facilitates the proliferation and migration of lung adenocarcinoma cells by augmenting EGFR trafficking. *Commun Biol.* 2025 May

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