

Anti-DNAJC5 Antibody [PSH24-38]

HA724445



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Green monkey, Pig
Applications:	WB, IF-Cell, IHC-Fr, IHC-P, FC(Intra), IP
Molecular Wt:	Predicted band size: 22 kDa
Clone number:	PSH24-38

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 cells) cell lysate, THP-1 (Human acute monoclonic leukemia cells) cell lysate, HepG2 (Human liver cancer cells) cell lysate, Huh7 (Human liver cancer cells) cell lysate, NIH/3T3 (Mouse fibroblasts) cell lysate, RAW264.7 (Mouse monocytic macrophage leukemia cells) cell lysate, PC-12 (Rat pheochromocytoma cells (undifferentiated)) cell lysate, C6 (Rat glioma cells) cell lysate, COS-1 (African green monkey kidney fibroblasts) cell lysate, Mouse brain 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:

WB	1:5,000
IF-Cell	1:100
IHC-Fr	1:500
IHC-P	1:200-1:1,000
FC(Intra)	1:1,000
IP	1-2µg/sample

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: Protein A affinity purified.

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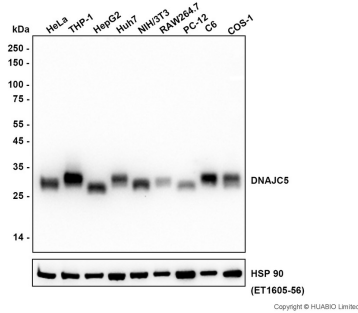
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Images

Fig1: Western blot analysis of DNAJC5 on different lysates with Rabbit anti-DNAJC5 antibody (HA724445) at 1/5,000 dilution.



Lane 1: HeLa (Human cervical adenocarcinoma cells) cell lysate
Lane 2: THP-1 (Human acute monoblastic leukemia cells) cell lysate

Lane 3: HepG2 (Human liver cancer cells) cell lysate

Lane 4: Huh7 (Human liver cancer cells) cell lysate

Lane 5: NIH/3T3 (Mouse fibroblasts) cell lysate

Lane 6: RAW264.7 (Mouse monocytic macrophage leukemia cells) cell lysate

Lane 7: PC-12 (Rat pheochromocytoma cells (undifferentiated)) cell lysate

Lane 8: C6 (Rat glioma cells) cell lysate

Lane 9: COS-1 (African green monkey kidney fibroblasts) cell lysate

Lysates/proteins at 15 µg/Lane.

Exposure time: 7 seconds; ECL: K1801

Blocking: 5% NFD/MTBST, 1 hour at room temperature

Primary antibody: HA724445, 1/5,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

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

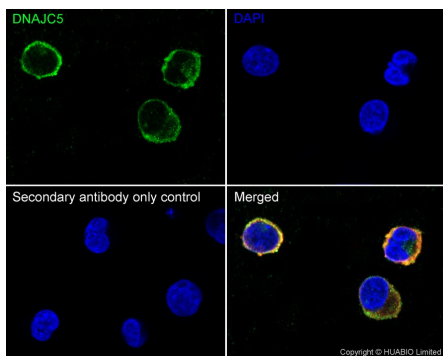
Predicted band size: 22 kDa

Observed band size: 34 kDa

Fig2: Application: Immunocytochemistry (IF-cell)

Species: Rat

Sample: PC-12 (Rat pheochromocytoma cells (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: HA724445, 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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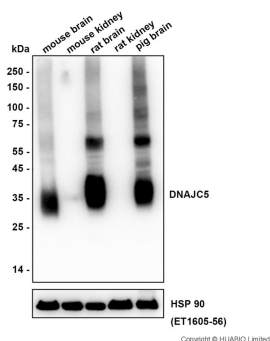
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Fig3: Western blot analysis of DNAJC5 on different lysates with Rabbit anti-DNAJC5 antibody (HA724445) at 1/5,000 dilution.

Lane 1: Mouse brain 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 30 µg/Lane.
 Exposure time: 7 seconds; ECL: K1801

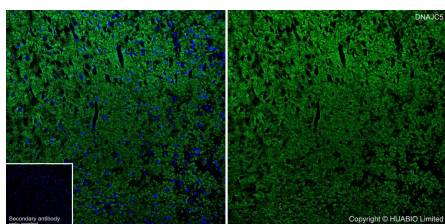
Negative expression of DNAJC5 protein in kidney tissue is consistent with the predicted expression pattern.

Blocking: 5% NFD/MTBST, 1 hour at room temperature
 Primary antibody: HA724445, 1/5,000 in primary antibody dilution buffer (K1803), overnight at 4 °C
 Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFD/MTBST, 1 hour at room temperature

Predicted band size: 22 kDa
 Observed band size: 34 kDa

Fig4: Application: Immunofluorescence (IHC-Fr)

Species: Rat
 Tissue: Brain
 Sample: Frozen section



Antigen retrieval: Not required

Wash buffer: 1× TBST
 Blocking: 10% normal goat serum + 1% Triton X-100 + 0.3 M Glycine in TBST, 30 minutes at room temperature.

Primary antibody: HA724445, 1/500, overnight at 4°C.
 Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 1.5 hours at room temperature.

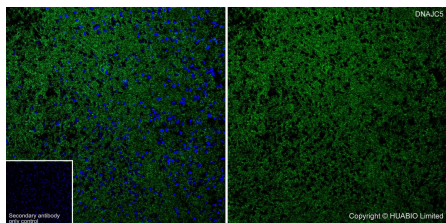


Fig5: Application: Immunofluorescence (IHC-Fr)

Species: Mouse
Tissue: Brain
Sample: Frozen section

Antigen retrieval: Not required

Wash buffer: 1× TBST
Blocking: 10% normal goat serum + 1% Triton X-100 + 0.3 M Glycine in TBST, 30 minutes at room temperature.

Primary antibody: HA724445, 1/500, overnight at 4°C.
Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 1.5 hours at room temperature.

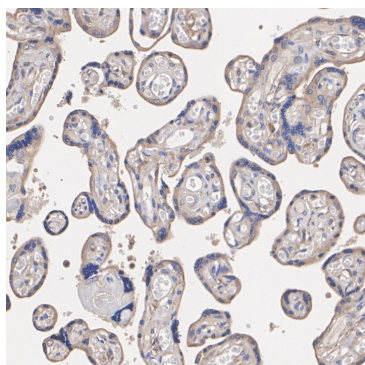


Fig6: Application: Immunohistochemistry (IHC-P)

Species: Human
Tissue: Placenta
Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST
Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.
Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA724445, 1/200, 1 hour at room temperature.
Secondary antibody: HA1119, 20 minutes at room temperature.

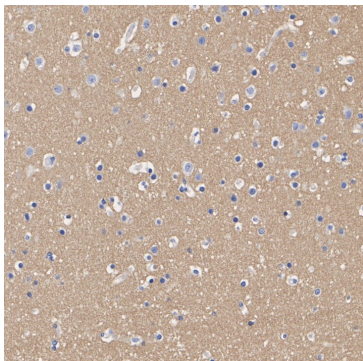


Fig7: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Brain

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

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

Primary antibody: HA724445, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

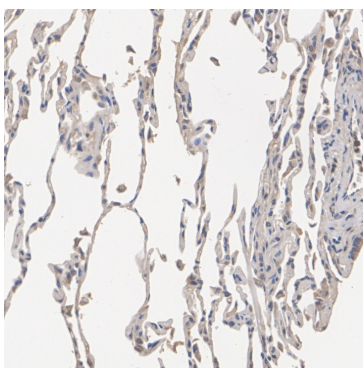


Fig8: Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Lung

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

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

Primary antibody: HA724445, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

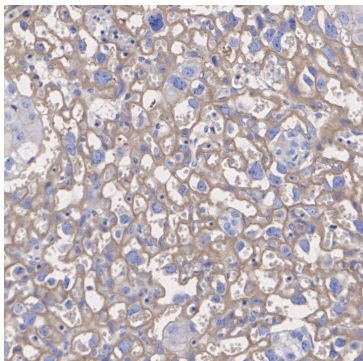


Fig9: Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Placenta

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

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

Primary antibody: HA724445, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

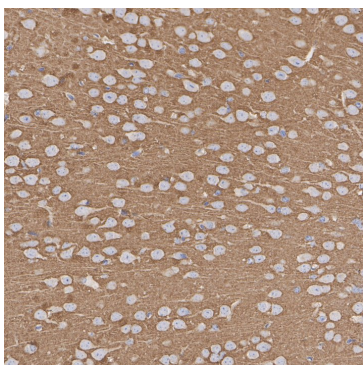


Fig10: Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Brain

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

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

Primary antibody: HA724445, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

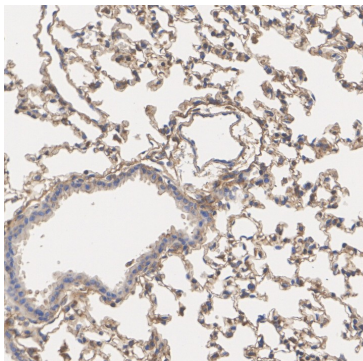


Fig11: Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Lung

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

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

Primary antibody: HA724445, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

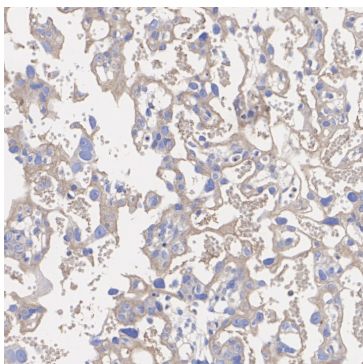


Fig12: Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Placenta

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

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

Primary antibody: HA724445, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

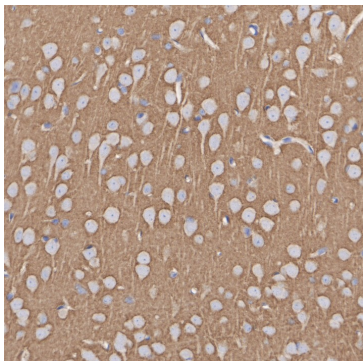


Fig13: Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Brain

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

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

Primary antibody: HA724445, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

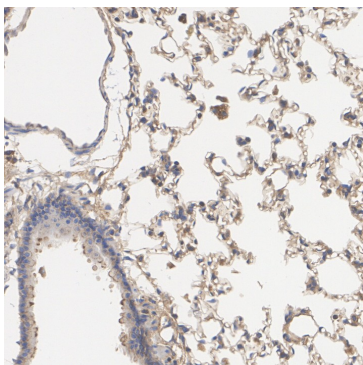


Fig14: Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Lung

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H₂O₂, 10 minutes at room temperature.

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

Primary antibody: HA724445, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

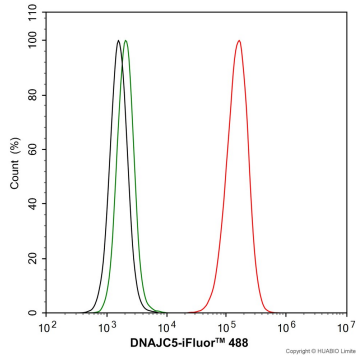


Fig15: Application: Flow Cytometry (Intra)

Species: Human

Sample: HeLa (Human cervix adenocarcinoma epithelial cell)

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
Permeabilization: 1x Permeabilization Buffer (eBioscience), 15 minutes at room temperature.

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

Antibody dilution buffer: 1x PBS.

Primary antibody: HA724445 (1/1,000) (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.

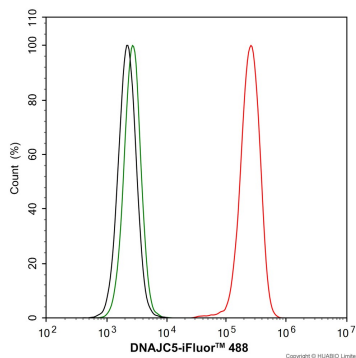


Fig16: Application: Flow Cytometry (Intra)

Species: Mouse

Sample: NIH/3T3 (Mouse fibroblasts)

Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
Permeabilization: 1x Permeabilization Buffer (eBioscience), 15 minutes at room temperature.

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

Antibody dilution buffer: 1x PBS.

Primary antibody: HA724445 (1/1,000) (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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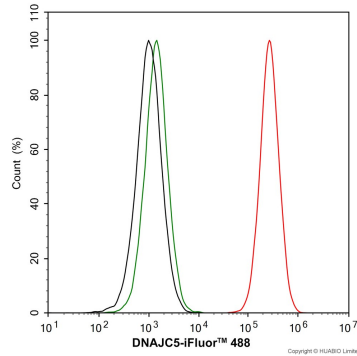
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Fig17: Application: Flow Cytometry (Intra)

Species: Rat

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



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
 Permeabilization: 1x Permeabilization Buffer (eBioscience), 15 minutes at room temperature.

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

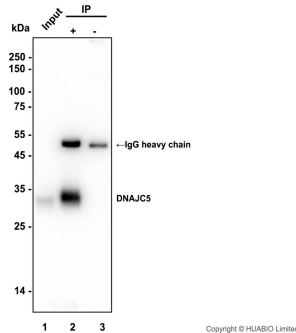
Antibody dilution buffer: 1x PBS.

Primary antibody: HA724445 (1/1,000) (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.

Fig18: Immunoprecipitation (IP)

DNAJC5 was immunoprecipitated in 0.2 mg HeLa (Human cervix adenocarcinoma epithelial cell) cell lysate with HA724445 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA724445 at 1/25,000 dilution. Alpaca anti-Rabbit IgG Fc, Recombinant VHH monoclonal Antibody(HA1031) at 1/50000 dilution was used for 1 hour at room temperature.



Lane 1: HeLa cell lysate (input)

Lane 2: HA724445 IP in HeLa cell lysate

Lane 3: Rabbit IgG instead of HA724445 in HeLa cell lysate

Exposure time: 2 seconds

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

Primary dilution: HA724445, 1/25,000 in primary antibody dilution buffer (K1803), 2 hours at room temperature

Predicted band size: 22 kDa

Observed band size: 34 kDa

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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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