

Anti-CD86 Antibody [PSH25-20]

HA724514



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	WB, IF-Tissue, IHC-P
Molecular Wt:	Predicted band size: 35 kDa
Clone number:	PSH25-20

Description: Cluster of Differentiation 86 (also known as CD86 and B7-2) is a protein constitutively expressed on dendritic cells, Langerhans cells, macrophages, B-cells (including memory B-cells), and on other antigen-presenting cells. Along with CD80, CD86 provides costimulatory signals necessary for T cell activation and survival. Depending on the ligand bound, CD86 can signal for self-regulation and cell-cell association, or for attenuation of regulation and cell-cell disassociation. The CD86 gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. Alternative splicing results in two transcript variants encoding different isoforms. Additional transcript variants have been described, but their full-length sequences have not been determined.

Immunogen: Recombinant protein within mouse CD86 aa 1-265.

Positive control: Mouse spleen tissue lysate.

Subcellular location: Cell membrane

Database links: SwissProt: P42082 Mouse

Recommended Dilutions:

WB	1:5,000
IF-Tissue	1:200
IHC-P	1:200-1:1,000

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.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

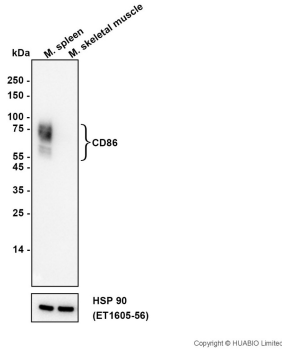
Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of CD86 on different lysates with Rabbit anti-CD86 antibody (HA724514) at 1/5,000 dilution.

Lane 1: Mouse spleen tissue lysate
Lane 2: Mouse skeletal muscle tissue lysate



Lysates/proteins at 20 µg/Lane.
Exposure time: 25 seconds; ECL: K1802

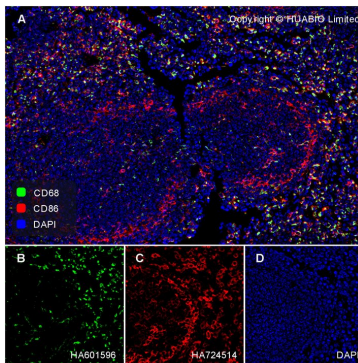
Negative expression of CD86 protein in skeletal muscle is consistent with the predicted expression pattern.

Blocking: 5% NFDM/TBST, 1 hour at room temperature
Primary antibody: HA724514, 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% NFDM/TBST, 1 hour at room temperature

Predicted band size: 35 kDa
Observed band size: 60-85 kDa

Fig2: Application: Immunofluorescence (IF-tissue)

Species: Mouse
Tissue: Spleen
Sample: Paraffin-embedded section



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

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: Antibody A: 1/200 (CD86, HA724514, rabbit, Red), Antibody B: 1/200 (CD68, HA601596, rat, Green), overnight at 4°C.
Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 594, HA1122), Goat anti-Rat IgG (iFluor™ 488, HA1133), 1.5 hours at room temperature.

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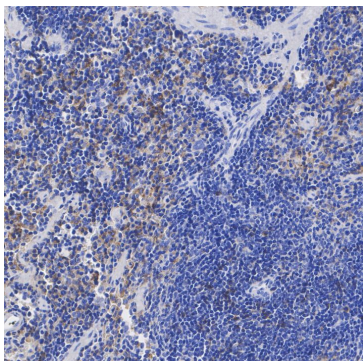


Fig3: Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Spleen

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: HA724514, 1/1,000, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

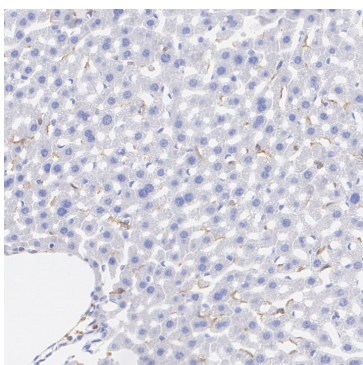


Fig4: Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Liver

Sample: Paraffin-embedded section

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

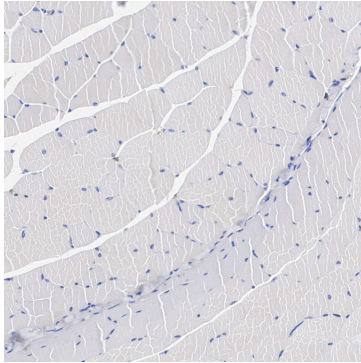
Wash buffer: 1× TBST

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

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

Primary antibody: HA724514, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

**Fig5:** Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Skeletal muscle

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: HA724514, 1/200, 1 hour at room temperature.

Secondary antibody: HA1119, 20 minutes at room temperature.

Negative expression of CD86 protein in skeletal muscle is consistent with the predicted expression pattern.

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

Background References

1. Tekguc M et al. Treg-expressed CTLA-4 depletes CD80/CD86 by trogocytosis, releasing free PD-L1 on antigen-presenting cells. Proc Natl Acad Sci U S A. 2021 Jul
2. Kennedy A et al. Differences in CD80 and CD86 transendocytosis reveal CD86 as a key target for CTLA-4 immune regulation. Nat Immunol. 2022 Sep

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