

# Anti-CD86 Antibody [SJ20-00]

ET1606-50



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell, IP
<b>Molecular Wt:</b>	Predicted band size: 38 kDa
<b>Clone number:</b>	SJ20-00

**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. Roles of both CD80 and CD86 are studied in context of many pathologies. Selective inhibition of costimulatory inhibitors was examined in a model of allergic pulmonary inflammation and airway hyper-responsiveness (AHR). Since initial host response to Staphylococcus aureus, especially the immune response based on T cells, is a contributing factor in the pathogenesis of acute pneumonia, role of the CD80/CD86 pathway in pathogenesis was investigated. The costimulatory molecules were also investigated in context of Bronchial Astma, Treg in cancer, and immunotherapy.

**Immunogen:** Synthetic peptide within Human CD86 aa 1-50 / 329.

**Positive control:** Daudi cell lysate, Raji cell lysate, Ramos cell lysate, K-562 cell lysate, Mouse lung tissue lysate, Rat lung tissue lysate, Raji.

**Subcellular location:** Cell membrane.

**Database links:** SwissProt: P42081 Human | P42082 Mouse  
Entrez Gene: 56822 Rat

**Recommended Dilutions:**

<b>WB</b>	1:5,000-1:20,000
<b>IF-Cell</b>	1:500
<b>IP</b>	Use at an assay dependent concentration.

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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## Images

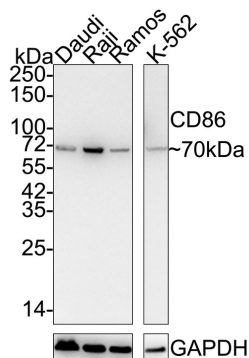
**Fig1:** Western blot analysis of CD86 on different lysates with Rabbit anti-CD86 antibody (ET1606-50) at 1/5,000 dilution.

Lane 1: Daudi cell lysate

Lane 2: Raji cell lysate

Lane 3: Ramos cell lysate

Lane 4: K-562 cell lysate



Lysates/proteins at 15 µg/Lane.

Predicted band size: 38 kDa

Observed band size: 70 kDa

Exposure time: 2 minutes 37 seconds;

4-20% SDS-PAGE gel.

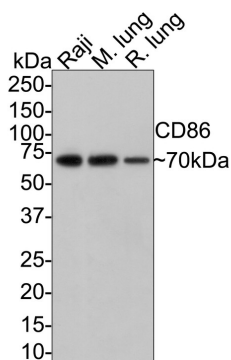
Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (ET1606-50) at 1/5,000 dilution was used in 5% NFDm/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/100,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of CD86 on different lysates with Rabbit anti-CD86 antibody (ET1606-50) at 1/5,000 dilution.

Lane 1: Raji cell lysate (10 µg/Lane)

Lane 2: Mouse lung tissue lysate (20 µg/Lane)

Lane 3: Rat lung tissue lysate (20 µg/Lane)



Predicted band size: 38 kDa

Observed band size: 70 kDa

Exposure time: 1 minute;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDm/TBST for 1 hour at room temperature. The primary antibody (ET1606-50) at 1/5,000 dilution was used in 5% NFDm/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/100,000 dilution was used for 1 hour at room temperature.

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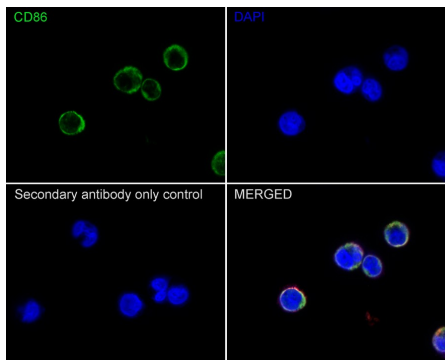
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**Fig3:** Immunocytochemistry analysis of Raji cells labeling CD86 with Rabbit anti-CD86 antibody (ET1606-50) at 1/500 dilution.



Cells were fixed in 100% precooled methanol for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-CD86 antibody (ET1606-50) at 1/500 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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

### Background References

1. Li Y & Ding J Optimized generation of survivin-specific cytotoxic T lymphocytes against lung cancer. *Mol Med Rep* 12:2169-74 (2015).
2. Tarhini AA et al. Immune monitoring of the circulation and the tumor microenvironment in patients with regionally advanced melanoma receiving neoadjuvant ipilimumab. *PLoS One* 9:e87705 (2014).

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