

Anti-CD86 Antibody [SJ20-00] - BSA and Azide free

HA750109



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

| | |
|----------------|------------------------------------------|
| WB | 1:5,000-1:20,000 |
| IF-Cell | 1:500 |
| IP | Use at an assay dependent concentration. |

Storage Buffer: PBS (pH7.4).

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

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

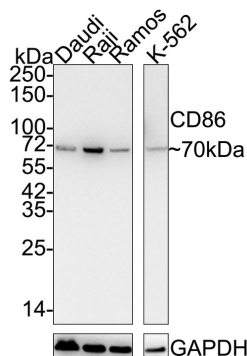
Fig1: Western blot analysis of CD86 on different lysates with Rabbit anti-CD86 antibody (HA750109) at 1/5,000 dilution.

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.

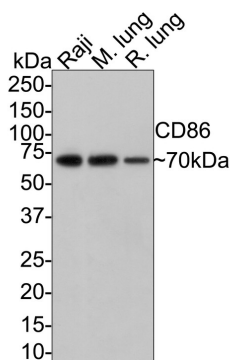
Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA750109) at 1/5,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/100,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of CD86 on different lysates with Rabbit anti-CD86 antibody (HA750109) 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 (HA750109) 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.

Hangzhou Huaan Biotechnology Co., Ltd.

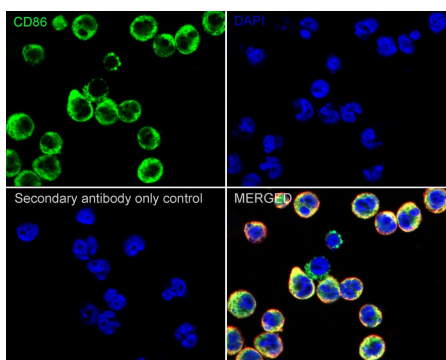
Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Fig3: Immunocytochemistry analysis of Raji cells labeling CD86 with Rabbit anti-CD86 antibody (HA750109) at 1/500 dilution.



Cells were fixed in 80% 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 (HA750109) 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 (HA601187, 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).

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation