

Anti-CD100 Antibody [JE63-21]

HA721013



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 96 kDa
Clone number:	JE63-21

Description: Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling. Regulates GABAergic synapse development (By similarity). Promotes the development of inhibitory synapses in a PLXNB1-dependent manner (By similarity). Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1 mediates activation of RHOA. Promotes the migration of cerebellar granule cells. Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro). Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-AKT pathway.

Immunogen: Synthetic peptide within human CD100 aa 126-175/862.

Positive control: Jurkat cell lysate, Daudi cell lysate, HL-60 cell lysate.

Subcellular location: Cell membrane.

Database links: SwissProt: Q92854 Human

Recommended Dilutions:

WB 1:500-1:2,000

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. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

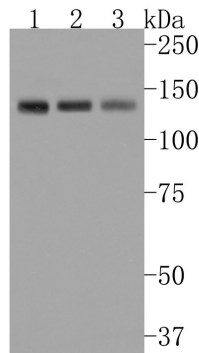
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Images

Fig1: Western blot analysis of CD100 on different lysates with Rabbit anti-CD100 antibody (HA721013) at 1/500 dilution.

Lane 1: Jurkat cell lysate
Lane 2: Daudi cell lysate
Lane 3: HL-60 cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 96 kDa
Observed band size: 130 kDa

Exposure time: 30 seconds;

8% 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 (HA721013) at 1/500 dilution was used in 5% NFDm/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.

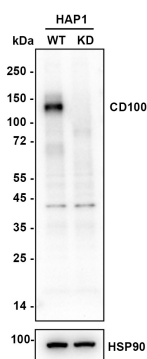


Fig2: Western blot analysis of CD100 on different lysates with Rabbit anti-CD100 antibody (HA721013) at 1/2,000 dilution. Lane 1: HAP1-si NT cell lysate Lane 2: HAP1-si CD100 cell lysate Lysates/proteins at 10 µg/Lane. Predicted band size: 96 kDa Observed band size: 130 kDa Exposure time: 62 seconds; ECL: K1802; 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 (HA721013) at 1/2,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:50,000 dilution was used for 1 hour at room temperature.

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

Background References

1. Wang L. et. al. The emerging roles of semaphorin4D/CD100 in immunological diseases. Biochem Soc Trans. 2020 Dec
2. Kalina T. et. al. CD Maps-Dynamic Profiling of CD1-CD100 Surface Expression on Human Leukocyte and Lymphocyte Subsets. Front Immunol. 2019 Oct

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