

Anti-CD48 Antibody [JE37-98]

HA721371



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 28 kDa
Clone number:	JE37-98

Description: CD48 is a glycosylphosphatidylinositol (GPI) -anchored membrane protein of the signaling lymphocyte activation molecule (SLAM) family, also known as SLAMF2 and BLAST-1. It is constitutively expressed on most hematopoietic cells (not on neutrophils and a subset of long-term hematopoietic stem cells in mice) and can be upregulated under certain conditions like infection. Interaction with its low affinity ligand CD2 promotes adhesion and TCR signaling. Interaction with the high affinity ligand CD244 (2B4) regulates natural killer (NK) and CD8 T cell activation and cytolytic function.

Immunogen: Recombinant protein within Human CD48 aa 144-243 / 243.

Positive control: Raji cell lysate, Ramos cell lysate, Daudi cell lysate, Jurkat cell lysate, human colon tissue, human kidney tissue.

Subcellular location: Cell membrane, Membrane raft, Secreted.

Database links: SwissProt: P09326 Human | P18181 Mouse | P10252 Rat

Recommended Dilutions:

WB	1:2,000
IHC-P	1:1,000

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

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

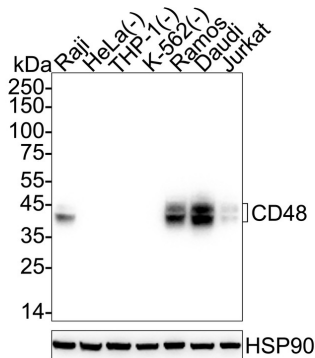
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of CD48 on different lysates with Rabbit anti-CD48 antibody (HA721371) at 1/2,000 dilution.



Lane 1: Raji cell lysate
 Lane 2: HeLa cell lysate (negative)
 Lane 3: THP-1 cell lysate (negative)
 Lane 4: K-562 cell lysate (negative)
 Lane 5: Ramos cell lysate
 Lane 6: Daudi cell lysate
 Lane 7: Jurkat cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 28 kDa
 Observed band size: 40-50 kDa

Exposure time: 25 seconds; ECL: K1801;

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 (HA721371) 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.

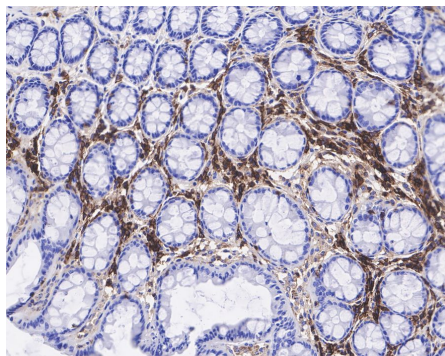


Fig2: Immunohistochemical analysis of paraffin-embedded human colon tissue with Rabbit anti-CD48 antibody (HA721371) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721371) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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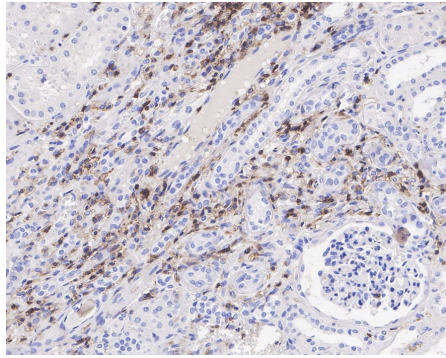


Fig3: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-CD48 antibody (HA721371) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA721371) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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

Background References

1. Wang Z et al. GDF15 induces immunosuppression via CD48 on regulatory T cells in hepatocellular carcinoma. *J Immunother Cancer*. 2021 Sep
2. Liu J et al. Epigenetic regulation of CD38/CD48 by KDM6A mediates NK cell response in multiple myeloma. *Nat Commun*. 2024 Feb

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