

Anti-CD45 Antibody

ER1902-02



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, FC
Molecular Wt:	Predicted band size 147 kDa

Description: The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported.

Immunogen: Synthetic peptide within human CD45 aa 1-60.

Positive control: U937 cell lysates, Jurkat cell lysates, Jurkat.

Subcellular location: Cell membrane, membrane raft.

Database links: SwissProt: P08575 Human

Recommended Dilutions:

WB	1:500-1:1,000
FC	1:50-1:100

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% 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: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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

Images

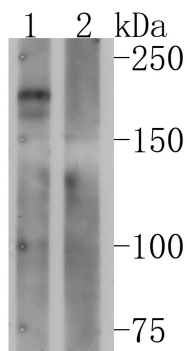


Fig1: Western blot analysis of CD45 on U937 cell lysates using anti-CD45 antibody.

Lane 1: Anti-CD45 Antibody (1/500).

Lane 2: Anti-CD45 Antibody, pre-incubated with the immunization peptide.

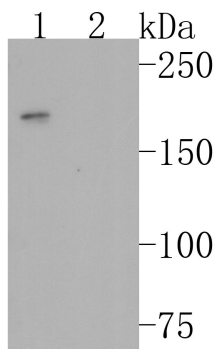


Fig2: Western blot analysis of CD45 on Jurkat cell lysates using anti-CD45 antibody.

Lane 1: Anti-CD45 Antibody (1/500).

Lane 2: Anti-CD45 Antibody, pre-incubated with the immunization peptide.

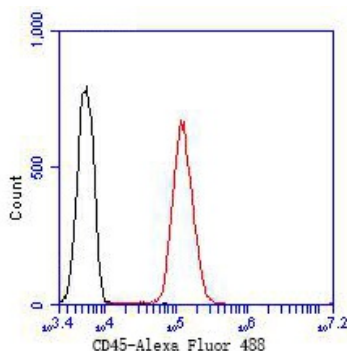


Fig3: Flow cytometric analysis of CD45 was done on Jurkat cells.

The cells were fixed, permeabilized and stained with the primary antibody (ER1902-02, 1/50) (red). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor 488-conjugated Goat anti-Rabbit IgG Secondary antibody at 1/1000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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

Background References

1. Rheinländer A. et. al. CD45 in human physiology and clinical medicine. Immunol Lett. 2018 Apr;196:22-32.
2. Fogle JE. et. al. CD45+ and CD45- lymphocyte populations identified by flow cytometry from dogs with lymphoma exhibit similar morphology and the same clonal (B cell or T cell) lineage. Vet Immunol Immunopathol. 2015 Dec 15;168(3-4):242-8.

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