

ABflo® 488 Rabbit anti-Human CD45 mAb

Catalog No.: A22494

Basic Information

Observed MW

Refer to figures

Calculated MW

138kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Human

CloneNo number

ARC5024-ABf488

Conjugate

ABflo® 488. Ex:491nm. Em:516nm.

Recommended Dilutions

FC 5 µl per 10⁶ cells in
100 µl volume

Background

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 Information

Gene ID

5788

Swiss Prot

P08575

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 26-577 of human CD45 (P08575).

Synonyms

LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180; IMD105

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

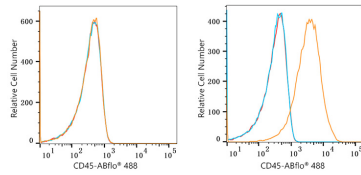
Affinity purification

Storage

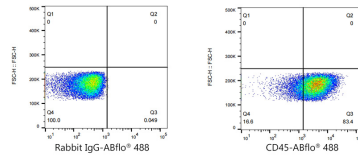
Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.03% proclin300,0.2% BSA,pH7.3.

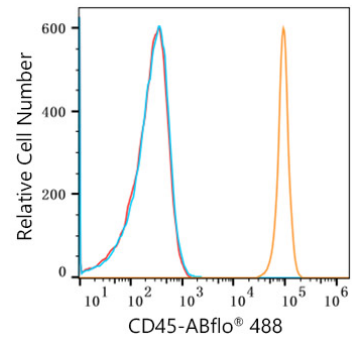
Validation Data



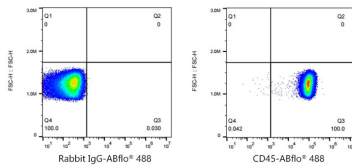
Flow cytometry: 1×10^6 293T cells (negative control, left) and Jurkat cells (right) were surface-stained with ABflo® 488 Rabbit anti-Human CD45 mAb (A22494, 2 $\mu\text{g}/\text{mL}$, orange line) or ABflo® 488 Rabbit IgG isotype control (A22069, 2 $\mu\text{g}/\text{mL}$, blue line). Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1×10^6 Jurkat cells were surface-stained with ABflo® 488 Rabbit IgG isotype control (A22069, 5 $\mu\text{l}/\text{Test}$, left) or ABflo® 488 Rabbit anti-Human CD45 mAb (A22494, 5 $\mu\text{l}/\text{Test}$, right).



Flow cytometry: 1×10^6 Human PBMC were surface-stained with ABflo® 488 Rabbit anti-Human CD45 mAb (A22494, 5 $\mu\text{l}/\text{Test}$, orange line) or ABflo® 488 Rabbit IgG isotype control (A22069, 5 $\mu\text{l}/\text{Test}$, blue line). Non-fluorescently stained Human PBMC was used as blank control (red line).



Flow cytometry: 1×10^6 Human PBMC cells were surface-stained with ABflo® 488 Rabbit IgG isotype control (A22069, 5 $\mu\text{l}/\text{Test}$, left) or ABflo® 488 Rabbit anti-Human CD45 mAb (A22494, 5 $\mu\text{l}/\text{Test}$, right).