

A22494

Leader in Biomolecular Solutions for Life Science



## ABflo® 488 Rabbit anti-Human CD45 mAb

Catalog No.: A22494

### Basic Information

#### Observed MW

Refer to figures

#### Calculated MW

138kDa

#### Category

SMab Recombinant Monoclonal Antibody

#### Applications

FC

#### Cross-Reactivity

Human

#### CloneNo number

ARC5024-ABf488

#### Conjugate

ABflo® 488. Ex:491nm. Em:516nm.

### 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.

### Recommended Dilutions

FC 5 µl per 10<sup>6</sup> cells in  
100 µl volume

### 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



[www.abclonal.com](http://www.abclonal.com)

### Product Information

#### Source

Rabbit

#### Isotype

IgG

#### Purification

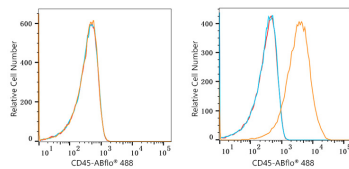
Affinity purification

#### Storage

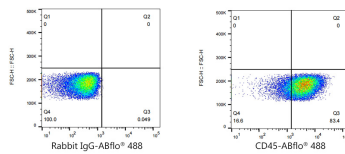
Store at 2-8°C. Avoid freeze.

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

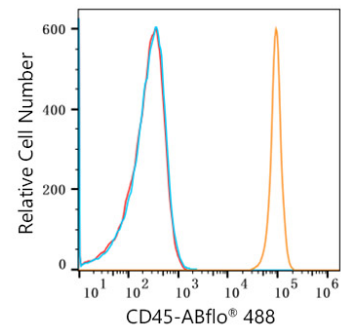
## Validation Data



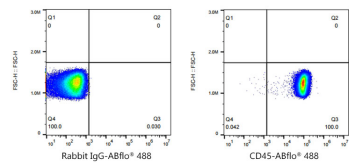
Flow cytometry:  $1 \times 10^6$  293T cells (negative control, left) and Jurkat cells (right) were surface-stained with ABflo® 488 Rabbit anti-Human CD45 mAb (A22494, 2  $\mu\text{g/mL}$ , orange line) or ABflo® 488 Rabbit IgG isotype control (A22069, 2  $\mu\text{g/mL}$ , blue line). Non-fluorescently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



Flow cytometry:  $1 \times 10^6$  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:  $1 \times 10^6$  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:  $1 \times 10^6$  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).