

# Biotin Rabbit anti-Mouse CD45 mAb

Catalog No.: A28220

## Basic Information

### Observed MW

### Calculated MW

130 kDa/140 kDa/144 kDa

### Category

Primary antibody

### Applications

FC

### Cross-Reactivity

Mouse

### CloneNo number

ARC60962

### Conjugate

Biotin

## Recommended Dilutions

**FC** ≤0.25 µg per million cells  
in 100 µl volume

## Background

CD45 is a 180-240 kD glycoprotein, also known as the leukocyte common antigen (LCA), T200, or Ly-5. As a member of the protein tyrosine phosphatase (PTP) family, it is expressed on all hematopoietic cells except mature erythrocytes and platelets. Different isoforms of CD45 are generated through the alternative splicing of exons 4, 5, and 6, which encode the A, B, and C determinant regions, respectively. CD45 plays a critical role in the signal transduction of both the T-cell receptor (TCR) and B-cell receptor (BCR). These isoforms exhibit high specificity for the cell's activation and maturation status, as well as the cell type. Key ligands for CD45 include galectin-1, CD2, CD3, TCR, CD4, CD22, and Thy-1.

## Immunogen Information

### Gene ID

19264

### Swiss Prot

P06800

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

loc; B220; Cd45; L-CA; Ly-5; T200; CD45R; Lyt-4

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

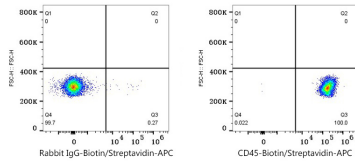
### Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

## Validation Data

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Flow cytometry:  $1 \times 10^6$  C57BL/6 mouse splenocytes were surface-stained with Biotin Rabbit IgG isotype control (A25626, 5  $\mu$ l/Test, left) or Biotin Rabbit anti-Mouse CD45 mAb (A28220, 0.25  $\mu$ g, right), followed by APC Streptavidin staining.