

CD3 (AB1407) mouse mAb

W0464

Key Features

Host Species

- Mouse

Reactivity

- Human;

Applications

- IHC; WB; IF; ELISA

MW

- 23 kDa (calculated)
- 23 kDa (observed)

Isotype

- IgG2a, kappa

Recommended Dilution Ratios

Application

IHC; WB; IF; ELISA

Dilution

IHC, 1:200-1:1000 | WB, 1:500-1:2000 | IF, 1:100-1:500 | ELISA, Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Storage

Storage Conditions

Store at -20°C. Avoid freeze / thaw cycles.

Storage buffer

The antibody is provided in liquid form in phosphate - buffered saline with 50% glycerol, 0.05% BSA, and 0.05% Proclin 300.

Basic Information

Clonality Monoclonal

Clone Number AB1407

Immunogen A synthetic peptide corresponding to the amino acid region 1 - 100 of the human CD3 protein.

Specificity The antibody can specifically recognize human CD3e protein, and shows no reaction with CD3d or CD3g. In western blotting of Jurkat cell lysate, the antibody can label a 23 kDa band corresponding to CD3e.

Purification Affinity purification Protein A

Concentration Product concentration may vary by batch. Please refer to the product COA for details.

Target Information

Gene name CD3E

Protein Name CD3

Database Link	Organism	Swiss Prot.	Gene ID
	Human	P07766	916

Background CD3 protein contains ϵ , γ , δ and ζ four subunits, including extracellular, transmembrane and intracellular domains. CD3 is a T cell marker, which is not expressed by B cells. CD3 complex mediates TCR antigen recognition, leading to T cell proliferation and cytokine release. It is mainly used for the diagnosis of T-cell lymphoma, with high specificity but low sensitivity. In order to improve the accuracy of diagnosis, it is usually combined with CD45RO in clinical application.