

ABflo® 647 Rabbit anti-Human/Monkey CD25 mAb

Catalog No.: A23170

Basic Information

Observed MW

Calculated MW

31kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Human, Cynomolgus

CloneNo number

ARC58045

Conjugate

ABflo® 647. Ex:648nm. Em:664nm.

Background

The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity receptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determined to result from extracellular proteolysis. Alternately-spliced IL2RA mRNAs have been isolated, but the significance of each is presently unknown. Mutations in this gene are associated with interleukin 2 receptor alpha deficiency. Patients with severe Coronavirus Disease 2019 (COVID-19), the disease caused by the novel severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), have significantly elevated levels of IL2R in their plasma. Similarly, serum IL-2R levels are found to be elevated in patients with different types of carcinomas. Certain IL2RA and IL2RB gene polymorphisms have been associated with lung cancer risk.

Recommended Dilutions

FC 5 µl per 10⁶ cells in 100 µl volume

Immunogen Information

Gene ID

3559

Swiss Prot

P01589

Immunogen

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

Synonyms

p55; CD25; IL2R; IMD41; TCGFR; IDDM10

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

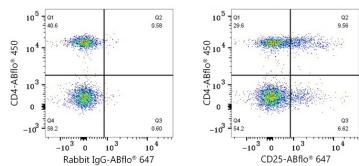
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS containing 0.2% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Flow cytometry: 1X10⁶ Human PBMC were surface-stained with ABflo® 450 Rabbit anti-Human/Monkey CD4 mAb (A26523,5 µl/Test) and ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test, left) or ABflo® 647 Rabbit anti-Human/Monkey CD25 mAb (A23170,5 µl/Test, right). Cells in the lymphocyte gate were used for analysis.