

ABflo® 450 Rabbit anti-Human CD152/CTLA-4 mAb

Catalog NO.: A26550 **1 Publications**

Basic Information

Observed MW

Calculated MW

25kDa

Category

Monoclonal Antibodies

Applications

FC (intra)

Cross-Reactivity

Human

Conjugation

ABflo® 450. Ex:406nm. Em:445nm.

Clone number

ARC57384

Background

Cytotoxic T-lymphocyte protein 4 (CTLA-4, CD152) is a member of the immunoglobulin superfamily that negatively regulates early T-cell activation. This protein is primarily expressed on T cells, including CD8+ cytotoxic T cells, CD4+ helper T cells, and CD4+/FoxP3+ regulatory T cells (Tregs). On the cell surface, CTLA-4 competes with CD28 for binding to the ligands B7.1 (CD80) and B7.2 (CD86), thereby downregulating T-cell activity. The subsequent activation of downstream effectors SHP-2 and PP2A attenuates TCR signaling. Studies have shown that CTLA-4 gene knockout mice develop severe lymphoproliferative disorders and die at an early age, confirming the essential role of CTLA-4 as a negative regulator of T cells. Correspondingly, mutations in the CTLA4 gene are associated with various autoimmune and immune dysregulation syndromes, including insulin-dependent diabetes mellitus, Graves' disease, Hashimoto's thyroiditis, celiac disease, systemic lupus erythematosus, and autoimmune lymphoproliferative syndrome type V. Further research has established that blockade of the CTLA-4 pathway represents an effective strategy in cancer immunotherapy.

Recommended Dilutions

FC (intra) 5 µl per 10⁶ cells in 100 µl volume

Immunogen Information

Gene ID

1493

Swiss Prot

P16410

Immunogen

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

Synonyms

CD; GSE; GRD4; ALPS5; CD152; CTLA-4; IDDM12; CELIAC3

Contact

Product Information

☒		order@abclonal.com
☒		service@abclonal.com
☒		www.abclonal.com

Source

Rabbit

Isotype

IgG

Purification

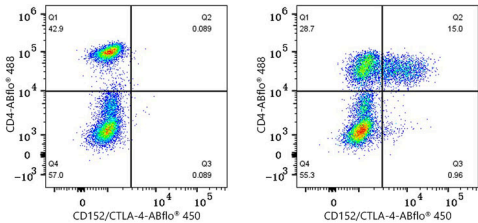
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

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

Validation Data



Flow cytometry: 1X10⁶ Human PBMC (untreated, left) and Human PBMC (stimulated with 50 ng/mL PMA and 1 µg/mL ionomycin for 6 hours) were surface-stained with ABflo® 488 Rabbit anti-Human/Monkey CD4 mAb (A22773, 5 µl/Test) and then intracellularly-stained with ABflo® 450 Rabbit anti-Human CD152/CTLA-4 mAb (A26550, 5 µl/Test, right).

