Biotin Anti-Human CD28 (CD28.2) Mouse IgG2a Recombinant Antibody

Catalog Number: **Biotin-65621**

Basic Information

Catalog Number:
Biotin-65621

Size:
100ug , 500 μg/ml

Source:
Mouse

Isotype:
IgG2a

GenBank Accession Number:
BC093698

GeneID (NCBI):
940

ENSEMBL Gene ID:
ENSG00000178562

Full Name:
CD28 molecule

Calculated MW:
220 aa, 25 kDa

Purification Method:
Protein A purification

CloneNo.:
CD28.2

Applications

Tested Applications:
FC

Species Specificity:
human

Background Information

CD28 (T-cell-specific surface glycoprotein CD28), also known as T44 and Tp44, is a 44 kD disulfide-linked homodimeric type I glycoprotein (PMID: 2162180). It is a member of the immunoglobulin superfamily and is expressed on most T lineage cells, NK cell subsets, and plasma cells (PMID: 2162180, 8386518). CD28 may affect in vivo immune responses by functioning both as a cell adhesion molecule linking B and T lymphocytes and as the surface component of a novel signal transduction pathway (PMID: 2162180, 3021470). CD28 binds both CD80 and CD86 with a highly conserved motif MYPPY in the CDR3-like loop (PMID: 15696168, 7964482). CD28 is considered a major co-stimulatory molecule, inducing T lymphocyte activation and IL-2 synthesis, and preventing cell death (PMID: 1348520).

Storage

Storage:
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
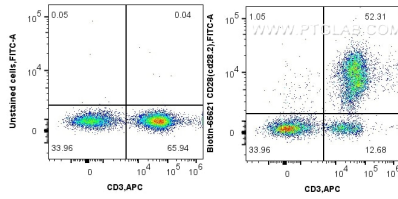PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

Selected Validation Data

1x10^6 human PBMCs were surface stained with 5 ul Biotin Plus Anti-Human CD28 (CD28.2) Mouse IgG2a RecAb (Biotin-65621, Clone: CD28.2) and CoraLite®488-conjugated streptavidin, or unstained. Cells were co-stained with APC Anti-Human CD3. Cells were not fixed.
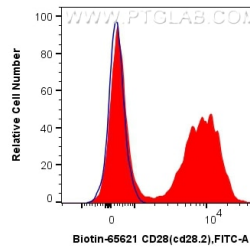
1x10^6 human PBMCs were surface stained with 5 ul Biotin Plus Anti-Human CD28 (CD28.2) Mouse IgG2a RecAb (Biotin-65621, Clone: CD28.2) (red) and CoraLite®488-conjugated streptavidin, or unstained (blue). Cells were not fixed.