

CoraLite[®] Plus 488 Anti-Human CD28 (CD28.2)

Catalog Number: **CL488-65099**

Basic Information

Catalog Number:

CL488-65099

Size:

100 tests, 5 µl/test

Source:

Mouse

Isotype:

IgG1, kappa

GenBank Accession Number:

BC093698

GeneID (NCBI):

940

ENSEMBL Gene ID:

ENSG00000178562

UNIPROT ID:

P10747

Full Name:

CD28 molecule

Calculated MW:

220 aa, 25 kDa

Purification Method:

Affinity purification

CloneNo.:

CD28.2

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

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

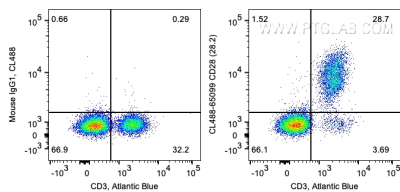
Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

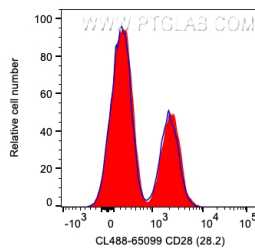
Storage Buffer:

PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

Selected Validation Data



1X10⁶ human PBMCs were surface co-stained with Atlantic Blue Anti-Human CD3 and 5 ul CoraLite® Plus 488 Anti-Human CD28 (CL488-65099, Clone:CD28.2) or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.



1X10⁶ human PBMCs were surface stained with 5 ul CoraLite® Plus 488 Anti-Human CD28 (CL488-65099, Clone:CD28.2) (red) or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.