For Research Use Only

Anti-Human CD28 (CD28.2)

Catalog Number:65099-1-Ig 7 Publications

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Basic Information

Catalog Number:
65099-1-Ig

Concentration:
100ug, 0.5 mg/ml

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:
Protein G purification

CloneNo.:
CD28.2

Recommended Dilutions:
FC: 0.2 ug per 10^6 cells in 100 ul suspension

Applications

Tested Applications:
FC

Cited Applications:
IHC, FC, Cell treatment

Species Specificity:
human

Cited Species:
human, mouse

Positive Controls:

FC : human PBMCs,

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Wenbo Zhao	36309750	J Transl Med	
Ya-Nan Pi	34852825	Cancer Cell Int	IHC
Xuping Yang	42436337	Sci Rep	

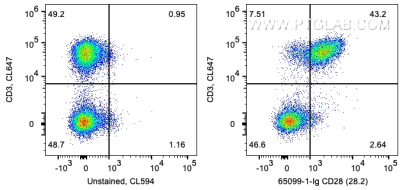
Storage

Storage:
Store at 2-8°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.09% sodium azide, pH 7.3.

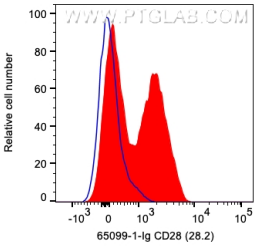
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10^6 human PBMCs were surface co-stained with CL647 Plus Anti-Human CD3 and 0.2 ug Anti-Human CD28 (65099-1-Ig, Clone:CD28.2) with CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000. Cells were not fixed. Lymphocytes were gated.



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