

For Research Use Only

# Anti-Human CD28 (CD28.2)

Catalog Number: 65099-1-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 65099-1-Ig	<b>GenBank Accession Number:</b> BC093698	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug, 0.5 mg/ml	<b>GeneID (NCBI):</b> 940	<b>CloneNo.:</b> CD28.2
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000178562	
<b>Isotype:</b> IgG1, kappa	<b>UNIPROT ID:</b> P10747	
	<b>Full Name:</b> CD28 molecule	
	<b>Calculated MW:</b> 220 aa, 25 kDa	

## Applications

**Tested Applications:**  
FC

**Cited Applications:**  
IHC, Cell treatment

**Species Specificity:**  
Human

**Cited Species:**  
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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wenbo Zhao	36309750	J Transl Med	
Ya-Nan Pi	34852825	Cancer Cell Int	IHC
Guojun Yao	37354488	Aging (Albany NY)	Cell treatment

## Storage

**Storage:**  
Store at 2-8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide.

For technical support and original validation data for this product please contact:

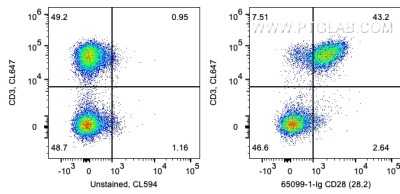
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

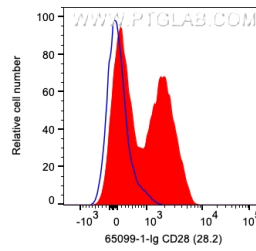
W: [ptgcn.com](http://ptgcn.com)

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

## Selected Validation Data



1X10<sup>6</sup> 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.



1X10<sup>6</sup> human PBMCs were surface 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 or unstained. Cells were not fixed. Lymphocytes were gated.