

For Research Use Only

# FITC Plus Anti-Human CD28 Rabbit Recombinant Antibody

Catalog Number:**FITC-98032**



## Basic Information

<b>Catalog Number:</b>	<b>GenBank Accession Number:</b>	<b>Purification Method:</b>
FITC-98032	BC093698	Protein A purification
<b>Concentration:</b>	<b>GenID (NCBI):</b>	<b>CloneNo.:</b>
100 tests, 5 µl/test	940	240354D2
<b>Source:</b>	<b>ENSEMBL Gene ID:</b>	<b>Recommended Dilutions:</b>
Rabbit	ENSG00000178562	FC: 5 µl per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b>	<b>UNIPROT ID:</b>	<b>Excitation/Emission maxima wavelengths:</b>
IgG	P10747	495 nm / 524 nm
<b>Immunogen Catalog Number:</b>	<b>Full Name:</b>	
EG0889	CD28 molecule	
	<b>Calculated MW:</b>	
	220 aa, 25 kDa	

## Applications

<b>Tested Applications:</b>	<b>Positive Controls:</b>
FC	FC : human PBMCs,
<b>Species Specificity:</b>	
human, monkey, non-human primates	

## 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 MYPY 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

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

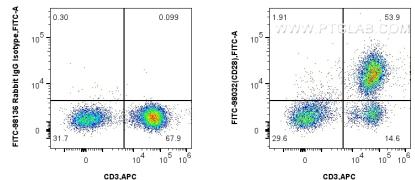
T: 4006900926

E: Proteintech-CN@ptglab.com

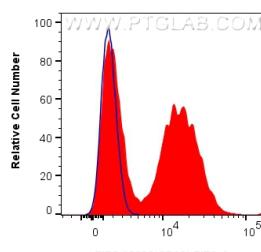
W: ptgcn.com

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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with APC Anti-Human CD3, and 5  $\mu$ l FITC Plus Anti-Human CD28 Rabbit RecAb (FITC-98032, Clone: 240354D2) or FITC Plus Rabbit IgG Isotype Control Recombinant Antibody (FITC-98136, Clone: 240953C9). Cells were not fixed. Lymphocytes were gated.



1x10<sup>6</sup> human PBMCs were surface stained with 5  $\mu$ l FITC Plus Anti-Human CD28 Rabbit RecAb (FITC-98032, Clone: 240354D2) (red) or FITC Plus Rabbit IgG Isotype Control Recombinant Antibody (FITC-98136, Clone: 240953C9) (blue). Cells were not fixed. Lymphocytes were gated.