

For Research Use Only

# CD28 Recombinant antibody

Catalog Number:83383-6-RR



## Basic Information

<b>Catalog Number:</b> 83383-6-RR	<b>GenBank Accession Number:</b> BC093698	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 940	<b>CloneNo.:</b> 240354D2
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000178562	<b>Recommended Dilutions:</b> IF/ICC 1:125-1:500
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P10747	
	<b>Full Name:</b> CD28 molecule	
	<b>Calculated MW:</b> 220 aa, 25 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, ELISA	<b>Positive Controls:</b> IF/ICC : Jurkat cells,
<b>Species Specificity:</b> 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 -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

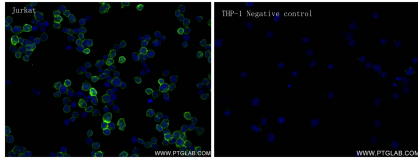
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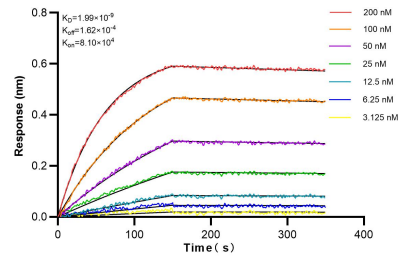
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells and THP-1 cells (negative control) using CD28 antibody (83383-6-RR, Clone: 240354D2) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



Biolayer interferometry (BLI) kinetic assays of 83383-6-RR against Human CD28 were performed. The affinity constant is 1.99 nM.