

For Research Use Only

CD28 Recombinant antibody

Catalog Number: 83383-7-RR



Basic Information

Catalog Number: 83383-7-RR	GenBank Accession Number: BC093698	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 940	CloneNo.: 240354D9
Source: Rabbit	ENSEMBL Gene ID: ENSG00000178562	Recommended Dilutions: WB 1:1000-1:4000
Isotype: IgG	UNIPROT ID: P10747	
	Full Name: CD28 molecule	
	Calculated MW: 220 aa, 25 kDa	
	Observed MW: 40-50 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Jurkat cells,
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 -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**

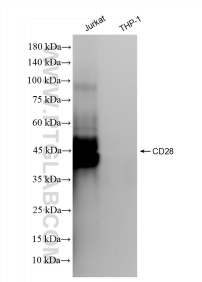
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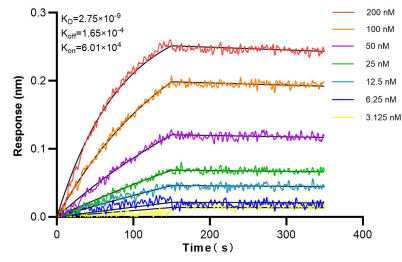
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83383-7-RR (CD28 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83383-7-RR against Human CD28 were performed. The affinity constant is 2.75 nM.