

Anti-Human CD28 Rabbit Recombinant Antibody

Catalog Number: **98032-1-RR**

Basic Information

Catalog Number:

98032-1-RR

Size:

100ug, 1 mg/ml

Source:

Rabbit

Isotype:

IgG

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 A purification

CloneNo.:

240354D2

Applications

Tested Applications:

FC

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

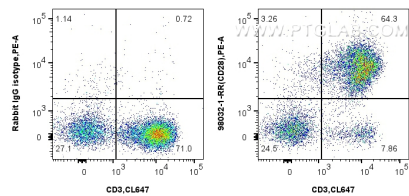
Storage:

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

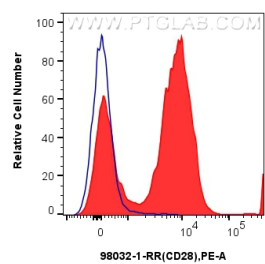
Storage Buffer:

PBS with 0.09% sodium azide.

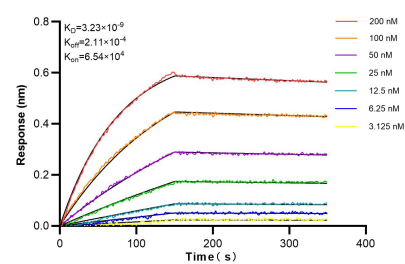
Selected Validation Data



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD28 Rabbit Recombinant Antibody (98032-1-RR, Clone: 240354D2) or Isotype Control, and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cell were then stained with CoraLite® Plus 647 Anti-Human CD3. Cells were not fixed. Lymphocytes were gated.



1x10⁶ human PBMCs were surface stained with 0.25 ug Anti-Human CD28 Rabbit Recombinant Antibody (98032-1-RR, Clone: 240354D2) (red) or Isotype Control (blue), and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Cells were not fixed. Lymphocytes were gated.



Biolayer interferometry (BLI) kinetic assays of 98032-1-RR against Human CD28 were performed. The affinity constant is 3.23 nM.