

For Research Use Only

PE-Cyanine7 Anti-Human CD28 Rabbit Recombinant Antibody

Catalog Number: PY7-98032



Basic Information

Catalog Number: PY7-98032	GenBank Accession Number: BC093698	Purification Method: Protein A purification
Concentration: 100 tests, 5 µl/test	GeneID (NCBI): 940	CloneNo.: 240354D2
Source: Rabbit	ENSEMBL Gene ID: ENSG00000178562	Recommended Dilutions: FC: 5 µl per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	UNIPROT ID: P10747	Excitation/Emission maxima wavelengths: 496 nm, 565 nm / 778 nm
Immunogen Catalog Number: EG0889	Full Name: CD28 molecule	
	Calculated MW: 220 aa, 25 kDa	

Applications

Tested Applications: FC	Positive Controls: FC : human PBMCs,
Species Specificity: human, cynomolgus monkey	

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. 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:

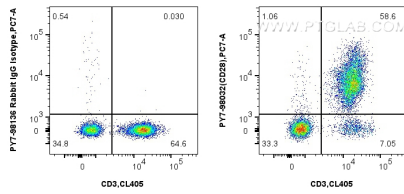
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Selected Validation Data



1x10⁶ human PBMCs were surface stained with CoraLite® Plus 405 Anti-Human CD3, and 5 ul PE-Cyanine7 Anti-Human CD28 Rabbit RecAb (PY7-98032, Clone: 240354D2) or PE-Cyanine7 Rabbit IgG Isotype Control Recombinant Antibody (PY7-98136, Clone: 240953C9). Cells were incubated with MonoZero™ Human/Mouse 3-in-1 blocking Reagent (PF00029) prior to staining. Cells were not fixed.