

For Research Use Only

CoraLite® Plus 488 Anti-Human CD25/IL-2RA (BC96)

Catalog Number: CL488-65096



Basic Information

Catalog Number: CL488-65096	GenBank Accession Number: BC156627	Purification Method: Affinity purification
Concentration: 100tests, 5 ul/test	GeneID (NCBI): 3559	CloneNo.: BC96
Source: Mouse	UNIPROT ID: P01589	Recommended Dilutions: FC: 5 ul per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG1, kappa	Full Name: interleukin 2 receptor, alpha	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
	Calculated MW: 272 aa, 31 kDa	

Applications

Tested Applications: FC	Positive Controls: FC : human PBMCs,
Species Specificity: human, monkey, non-human primates	

Background Information

Proliferation of T lymphocytes is triggered by the interaction of IL-2 with its specific receptor following T lymphocyte activation. The receptor for IL-2 has three forms, generated by different combinations of three different proteins, the alpha chain (IL-2R alpha), the beta chain (IL-2R beta), and the gamma chain (IL-2R gamma) (PMID: 8476561). IL-2R alpha (also known as CD25) is a type I transmembrane protein present on activated T cells, activated B cells, some thymocytes, myeloid precursors, and oligodendrocytes. CD25 is also found on natural CD4⁺Foxp3⁺ Treg cells and a subset of human CD4⁺ memory T cells (PMID: 22585674).

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:

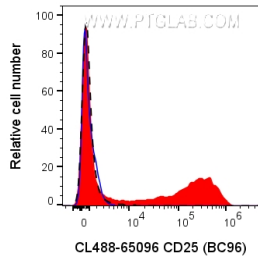
T: 4006900926

E: Proteintech-CN@ptglab.com

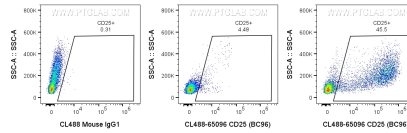
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Selected Validation Data



1x10⁶ CD3/CD28 activated (3 day) human PBMCs were surface stained with 5 ul CoraLite® Plus 488 Anti-Human CD25/IL-2RA (CL488-65096, Clone: BC96) (red) or CoraLite® Plus 488 Mouse IgG1 Isotype Control (CL488-65124, Clone: MOPC-21) (blue). 1x10⁶ unactivated human PBMCs were surface stained with 5 ul CoraLite® Plus 488 Anti-Human CD25/IL-2RA (CL488-65096, Clone: BC96) (black dashed). Cells were not fixed. Cells were treated with Fc Receptor Block



1x10⁶ CD3/CD28 activated (3 day) human PBMCs were surface stained with 5 ul CoraLite® Plus 488 Anti-Human CD25/IL-2RA (CL488-65096, Clone: BC96) (right) or CoraLite® Plus 488 Mouse IgG1 Isotype Control (CL488-65124, Clone: MOPC-21) (left). 1x10⁶ unactivated human PBMCs were surface stained with 5 ul CoraLite® Plus 488 Anti-Human CD25/IL-2RA (CL488-65096, Clone: BC96) (center). Cells were not fixed. Cells were treated with Fc Receptor Block