

For Research Use Only

CoraLite® Plus 647 Anti-Mouse CD80 Rabbit Recombinant Antibody

Catalog Number: CL647-98158



Basic Information

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|--|---|---|
| Catalog Number: CL647-98158 | GenBank Accession Number: NM_009855.2 | Purification Method: Protein A purification |
| Concentration: 100ug, 500 ug/ml | GeneID (NCBI): 12519 | CloneNo.: 241371E12 |
| Source: Rabbit | UNIPROT ID: Q00609-1 | Recommended Dilutions: FC: 0.25 ug per 10 ⁶ cells in a 100 µl suspension |
| Isotype: IgG | Full Name: CD80 antigen | Excitation/Emission maxima wavelengths: 654 nm / 674 nm |
| Immunogen Catalog Number: EG0840 | Calculated MW: 35 kDa | |

Applications

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| Tested Applications: FC | Positive Controls: FC : mouse peritoneal macrophages, |
| Species Specificity: mouse | |

Background Information

CD80 (also known as B7-1) is a type I membrane protein that is a member of the immunoglobulin superfamily, with an extracellular immunoglobulin constant-like domain and a variable-like domain required for receptor binding. It is expressed on antigen-presenting cells (APCs), including B cells, dendritic cells, monocytes, and macrophages. CD80 is the receptor for the proteins CD28 and CTLA-4 found on the surface of T-cells. It is involved in the costimulatory signal essential for T-lymphocyte activation. T-cell proliferation and cytokine production is induced by the binding of CD28, binding to CTLA-4 has opposite effects and inhibits T-cell activation. CD80 also acts as a cellular attachment receptor for adenovirus subgroup B. (PMID: 7545666; 12015893; 16920215)

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, pH7.3

For technical support and original validation data for this product please contact:

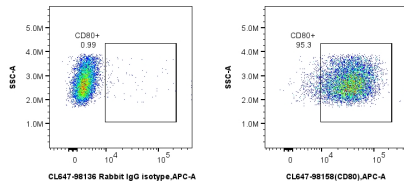
T: 4006900926

E: Proteintech-CN@ptglab.com

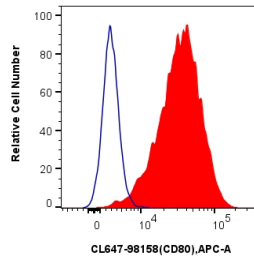
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Selected Validation Data



1x10⁶ mouse peritoneal macrophages were surface stained with 0.25 ug CoraLite® Plus 647 Anti-Mouse CD80 Rabbit RecAb (CL647-98158, Clone: 241371E12) or CoraLite® Plus 647 Rabbit IgG Isotype Control RecAb (CL647-98136, Clone: 240953C9). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



1x10⁶ mouse peritoneal macrophages were surface stained with 0.25 ug CoraLite® Plus 647 Anti-Mouse CD80 Rabbit RecAb (CL647-98158, Clone:241371E12) (red) or CoraLite® Plus 647 Rabbit IgG Isotype Control RecAb (CL647-98136, Clone: 240953C9) (blue). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.