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Anti-Mouse CD86 (B7-2) Antibody, Clone GL-1, PE

Rat monoclonal antibody against mouse CD86 (B7-2), PE-conjugated

Catalog #100-1625 | 100 µg | 0.2 mg/mL

Product Description

This monoclonal antibody reacts with mouse cluster of differentiation 86 (CD86; also known as B7-2), an ~80 kDa immunoglobulin superfamily member and a type I transmembrane glycoprotein. Both CD80 and CD86 are ligands of the T cell surface proteins CD28 and CD152 (CTLA-4); however, CD86 is expressed earlier in the immune response compared to CD80. CD86 is also involved in immunoglobulin class-switching and triggering of natural killer cell-mediated cytotoxicity. CD86 binds to CD28 to transduce co-stimulatory signals for T cell activation, proliferation, and cytokine production. CD86 can also bind to CTLA-4 with a 20- to 100-fold higher affinity than CD28 and deliver an inhibitory signal to T cells as well as down regulate the immune response. CD86 has been used as a phenotypic marker for differentiating cells. This antibody can be used as a marker to assess classically activated M1 murine macrophages.

Target Antigen:	CD86 (B7-2)
Alternative Names:	B70, B7-2, B7-2 antigen, B-lymphocyte activation antigen B7-2, Ly-58
Gene ID:	12524
Species Reactivity:	Mouse
Host Species:	Rat
Clonality:	Monoclonal
Clone:	GL-1
Isotype:	IgG2a, kappa
Immunogen:	Mouse (CBA/Ca) LPS-activated splenic B cells
Conjugate:	PE (Phycoerythrin)

Applications

Verified Applications:	FC
Reported Applications:	FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; FCXM: Flow cytometric crossmatch assay; FISH: Fluorescence in situ hybridization; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-F: Immunohistochemistry (frozen-tissue); IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; NMR: Nuclear magnetic resonance spectroscopy; RIA: Radioimmunoassay; WB: Western blotting

Properties

Product Formulation:	Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide and 0.1% gelatin
Purification:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. Stable until expiry date (EXP) on label.
Directions for Use:	For flow cytometry, the suggested use of this antibody is ≤ 1 µg per 1 x 10^6 cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each application.

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

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