

# CD86 (B7-2) Monoclonal Antibody (GL1), Brilliant Ultra Violet™ 395, eBioscience™

| Product Details             |                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------|
| Size                        | 25 µg                                                                              |
| Species Reactivity          | Mouse                                                                              |
| Host/Isotype                | Rat / IgG2a, kappa                                                                 |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), Brilliant Ultra Violet™ 395, eBioscience™ |
| Class                       | Monoclonal                                                                         |
| Type                        | Antibody                                                                           |
| Clone                       | GL1                                                                                |
| Conjugate                   | Brilliant Ultra Violet™ 395                                                        |
| Excitation/Emission Max     | 347/399 nm                                                                         |
| Form                        | Liquid                                                                             |
| Concentration               | 0.2 mg/mL                                                                          |
| Purification                | Affinity chromatography                                                            |
| Storage buffer              | PBS, pH 7.2, with BSA                                                              |
| Contains                    | 0.09% sodium azide                                                                 |
| Storage conditions          | 4° C, store in dark, DO NOT FREEZE!                                                |
| RRID                        | AB_2925275                                                                         |

| Applications          | Tested Dilution | Publications |
|-----------------------|-----------------|--------------|
| Flow Cytometry (Flow) | 1 µg/test       | -            |

## Product Specific Information

**Description:** The GL1 monoclonal antibody reacts with mouse CD86, an ~80 kDa surface receptor also known as B7-2. CD86 and CD80 are members of the B7 family of costimulatory molecules. CD86 is expressed at low level on B cells, macrophages, and dendritic cells and is upregulated on B cells through a variety of surface stimuli including the BCR complex, CD40 and some cytokine receptors. CD86 is also expressed by activated mouse T cells and thioglycolate-elicited peritoneal cells. In addition to CD80 (B7-1), CD86 is a counter-receptor for the T cell surface molecules CD28 and CD152 (CTLA-4). This interaction plays a critical role in T-B crosstalk, T cell costimulation, autoantibody production and Th2-mediated Ig production. The kinetics of upregulation of CD86 upon stimulation, supports its major contribution during the primary phase of an immune response.

**Applications Reported:** This GL1 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This GL1 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This may be used at less than or equal to 1.0 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Brilliant Ultra Violet™ 395 (BUV395) is a dye that emits at 395 nm and is intended for use on cytometers equipped with an ultraviolet (355 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

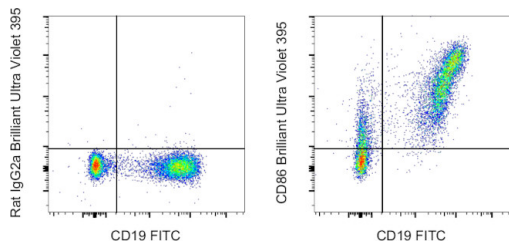
When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain

Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

Excitation: 350 nm; Emission: 395 nm; Laser: Ultraviolet Laser.

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## Product Images For CD86 (B7-2) Monoclonal Antibody (GL1), Brilliant Ultra Violet™ 395, eBioscience™



### CD86 (B7-2) Antibody (363-0862-80) in Flow

BALB/c mouse splenocytes were stimulated for 72 hours with LPS (Product # 00-4976-03). Cells were then stained with CD19 Monoclonal Antibody, FITC (Product # 11-0193-82) and 0.5 µg of Rat IgG2a kappa Isotype Control, Brilliant Ultra Violet 395 (Product # 363-4321-81) (left) or 0.5 µg of CD86 (B7-2) Monoclonal Antibody, Brilliant Ultra Violet 395 (right). Viable cells in the lymphocyte gate were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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