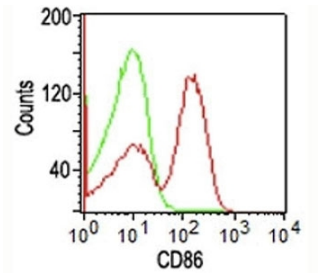
CD86 Antibody PE Conjugate [clone BU63] (V2056PE)

Catalog No.	Formulation	Size
V2056PE-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests

Citations (11) **Bulk quote request**

Species Reactivity	Human
Format	PE Conjugate
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	BU63
Purity	Protein G affinity chromatography
Gene ID	942 (Human)
Localization	Cell surface
Applications	Flow cytometry: 5ul/test/million cells Immunofluorescence: 1:50-1:100
Limitations	This CD86 antibody PE conjugate is available for research use only.



FACS staining of human PBMCs using unlabeled CD86 antibody (BU63).

Description

CD86 antibody PE conjugate clone BU63 is a monoclonal antibody specific for CD86, a costimulatory molecule expressed on antigen-presenting cells. CD86 regulates T cell activation through interactions with CD28 and CTLA-4, providing essential immune signals. With direct conjugation to phycoerythrin, this antibody produces strong red-orange fluorescence, enabling rapid detection of CD86 in fluorescence-based studies. NSJ Bioreagents provides CD86 antibody PE conjugate clone BU63 for applications in immunology, oncology, and transplantation research.

The antibody delivers vivid membranous staining on dendritic cells, B cells, and macrophages. In immunology, it is widely used to profile immune activation during infection, autoimmunity, and tolerance. Direct conjugation to PE enhances assay sensitivity and reduces background by eliminating secondary antibody steps.

In oncology, CD86 antibody PE conjugate clone BU63 supports studies of tumor immunology. Detecting CD86 expression in tumor microenvironments provides insight into immune evasion and supports research into immunotherapy strategies.

In transplantation biology, CD86 antibody PE conjugate clone BU63 is valuable for assessing immune compatibility and rejection risk. Expression levels of CD86 on antigen-presenting cells influence graft outcomes, and this conjugated antibody enables efficient profiling of immune responses.

Validated for fluorescence-based assays, the antibody consistently produces bright red-orange staining. Alternate names include B7-2 antibody PE, costimulatory CD86 antibody PE conjugate, and antigen-presenting cell marker PE antibody.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CD86 antibody PE conjugate to be titered up or down for optimal performance.

Immunogen

ARH-77 (B-lymphoblastoid cell line) was used as the immunogen for this CD86 antibody PE conjugate.

Storage

Store the CD86 antibody PE conjugate at 2-8oC. The conjugate is light-sensitive, protect from light.

References (4)

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