# CD86 Antibody FITC Conjugate [clone BU63] (V2056FITC)

| Catalog No. | Formulation | Size |
|---|---|---|
| V2056FITC-100T | 500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 Tests |

Citations (10) **Bulk quote request**

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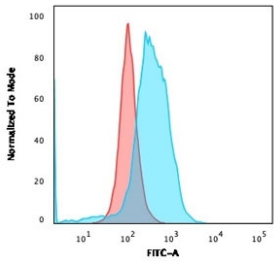
|---|---|
| **Species Reactivity** | Human |
| **Format** | FITC Conjugate |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | BU63 |
| **Purity** | Protein G affinity chromatography |
| **Gene ID** | 942 (Human) |
| **Localization** | Cell surface |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




Flow cytometry testing of PFA-fixed human Ramos cells with unlabeled CD86 antibody (clone BU63); Red=isotype control, Blue= CD86 antibody.

## Description

CD86 antibody FITC conjugate clone BU63 provides specific detection of CD86 with green fluorescence. CD86 is a costimulatory molecule expressed on antigen-presenting cells, where it regulates T cell activation and tolerance by binding to CD28 and CTLA-4 receptors. The fluorescein isothiocyanate conjugation enables direct detection of CD86 expression in fluorescence-based assays without secondary reagents. NSJ Bioreagents supplies CD86 antibody FITC conjugate clone BU63 for efficient detection of this immune regulator.

The antibody produces bright green membranous staining on dendritic cells, B cells, and macrophages. In immunology, it

is widely applied in flow cytometry and fluorescence microscopy to evaluate costimulatory signals during immune activation. Researchers use this conjugated antibody to study T cell priming, autoimmunity, and tolerance.

In oncology, CD86 antibody FITC conjugate clone BU63 has been applied to assess tumor immune microenvironments. Expression of CD86 on infiltrating immune cells influences tumor recognition and response to immunotherapies. Detecting CD86 with this conjugated antibody provides a rapid means of profiling immune landscapes in cancer research.

The antibody also has relevance in transplantation studies, where CD86 levels on antigen-presenting cells influence graft outcomes. Direct detection with FITC conjugation simplifies workflows and improves assay efficiency.

Validated for fluorescence-based applications, the antibody delivers consistent green signals with minimal background. Alternate names include B7-2 antibody FITC, costimulatory CD86 antibody FITC, and antigen-presenting cell marker FITC conjugate.

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody 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 FITC conjugate.

## Storage

Store the CD86 antibody FITC conjugate at 2-8oC, protected from light.

References (4)