

RF647 Rat Anti-Mouse CD86

Purified RF647-conjugated Recombinant Rat Monoclonal Antibody

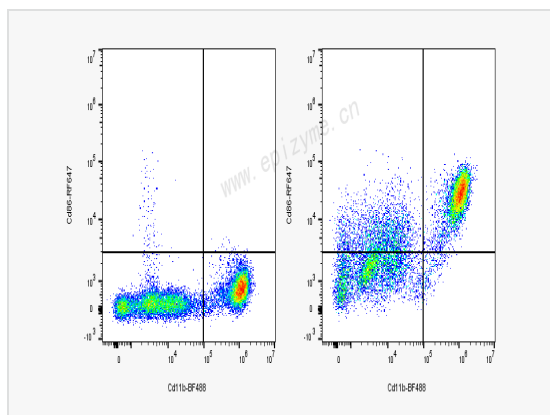
Catalog # F209116

Product Information

Application	FC
Recommended Usage	5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood.
Reactivity	Mouse
Host	Rat
Clonality	Monoclonal
Clone No.	38K17F97
Isotype	IgG2a, κ
Label	RF647 (Ex/Em: 650/671 nm)
Immunogen	Recombinant protein of mouse CD86
Format	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA.
Storage	Shipped on wet ice. Store undiluted between 2°C and 8°C and protected from prolonged exposure to light. Do not freeze.
Precautions	RF647 Rat Anti-Mouse CD86 [38K17F97] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	CD86; CD28LG2; T-lymphocyte activation antigen CD86; Activation B7-2 antigen; B70; BU63; CTLA-4 counter-receptor B7.2; FUN-1.
Uniprot ID	P42082
Gene ID	12524
Background	Predicted to enable receptor ligand activity. Involved in several processes, including positive regulation of immunoglobulin production; positive regulation of non-canonical NF-kappaB signal transduction; and toll-like receptor 3 signaling pathway. Acts upstream of or within several processes, including cellular response to lipopolysaccharide; positive regulation of T cell proliferation; and toll-like receptor signaling pathway. Located in external side of plasma membrane and intracellular membrane-bounded organelle. Is expressed in central nervous system; mandible; and retina. Used to study Guillain-Barre syndrome. Human ortholog(s) of this gene implicated in several diseases, including IgA vasculitis; autoimmune disease (multiple); chronic lymphocytic leukemia; chronic obstructive pulmonary disease; and systemic scleroderma. Orthologous to human CD86 (CD86 molecule). [provided by Alliance of Genome Resources, Apr 2025]
Cellular Location	Cell membrane; Single-pass type I membrane protein.
Tissue Location	Expressed on the surfaces of antigen-presenting cells.



Typical flow-cytometry plots of mouse C57BL/6J peritoneal cavity cells stained with anti-CD11b-BF488 (F208106) and anti-CD86-RF647 (F209116) (right) or with anti-CD11b-BF488 (F208106) alone as a control (left).