

ARG23463 anti-CD86 antibody [24F] (PE)

Package: 50 tests
Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [24F] recognizes CD86 Mouse anti Rat CD86 antibody, clone 24F recognizes rat CD86, otherwise known as B7-2, a type I transmembrane protein and member of the Ig superfamily, which acts as a ligand for both CD28 and CD152 (CTLA-4), and is primarily expressed on antigen presenting cells (APCs) including dendritic cells, and also on germinal centre B cells and macrophages. Like CD80, CD86 is an accessory molecule which functions in the CD28-CD80/CD86 co-stimulatory pathway, vital for T cell activation, crosstalk between T and B cells, and Th2-mediated Ig production. Mouse anti Rat CD86 antibody, clone 24F has been shown to block the co-stimulatory activity of rat CD86 (Maeda et al. 1997).
Tested Reactivity	Rat
Tested Application	FACS
Host	Mouse
Clonality	Monoclonal
Clone	24F
Isotype	IgG1
Target Name	CD86
Species	Rat
Immunogen	HTLV-1 transformed Lewis-S1 cells.
Conjugation	PE
Alternate Names	B70; B7.2; LAB72; CD antigen CD86; B7-2; FUN-1; CD28LG2; T-lymphocyte activation antigen CD86; CTLA-4 counter-receptor B7.2; Activation B7-2 antigen; BU63

Application Instructions

Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>FACS</td><td>Neat</td></tr> </table>	Application	Dilution	FACS	Neat
Application	Dilution				
FACS	Neat				
Application Note	<p>FACS: Use 10 µl of the suggested working dilution to label 10⁶ cells in 100 µl.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>				

Properties

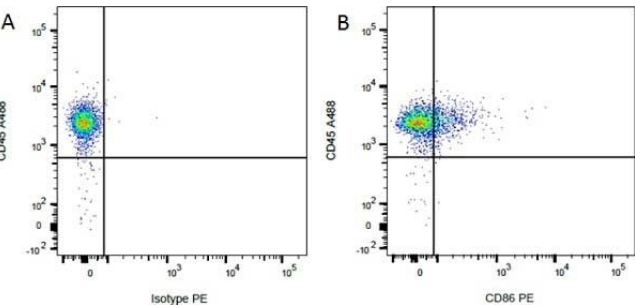
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.09% Sodium azide, 1% BSA and 5% Sucrose.
Preservative	0.09% Sodium azide
Stabilizer	1% BSA and 5% Sucrose

Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

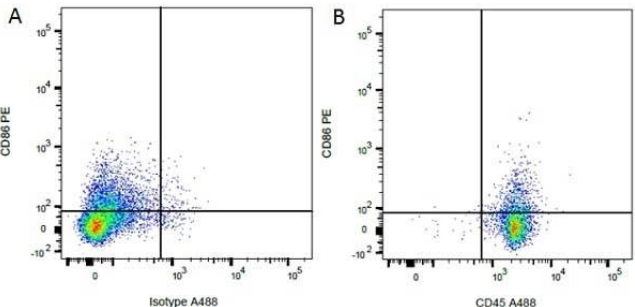
Gene Symbol	CD86
Gene Full Name	CD86 molecule
Background	This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in several transcript variants encoding different isoforms.[provided by RefSeq, May 2011]
Function	Receptor involved in the costimulatory signal essential for T-lymphocyte proliferation and interleukin-2 production, by binding CD28 or CTLA-4. May play a critical role in the early events of T-cell activation and costimulation of naive T-cells, such as deciding between immunity and anergy that is made by T-cells within 24 hours after activation. Isoform 2 interferes with the formation of CD86 clusters, and thus acts as a negative regulator of T-cell activation. [UniProt]
Calculated Mw	38 kDa
PTM	Polyubiquitinated; which is promoted by MARCH8 and results in endocytosis and lysosomal degradation. [UniProt]

Images



ARG23463 anti-CD86 antibody [24F] (PE) FACS image

Flow Cytometry: Figure A. A488 conjugated Mouse anti Rat CD45 and PE-conjugated Mouse IgG1 isotype control. Figure B. A488 conjugated Mouse anti Rat CD45 and ARG23463 anti-CD86 antibody [24F] (PE). All experiments performed on red cell lysed Rat blood gated on mononuclear cells.



ARG23463 anti-CD86 antibody [24F] (PE) FACS image

Flow Cytometry: Figure A. ARG23463 anti-CD86 antibody [24F] (PE) and A488 conjugated Mouse IgG1 isotype control. Figure B. ARG23463 anti-CD86 antibody [24F] (PE) and A488 conjugated Mouse anti Rat CD45. All experiments performed on red cell lysed Rat blood gated on mononuclear cells.