

ARG54221 anti-CD101 antibody [BB27] (PE)

Package: 50 tests
Store at: 4°C

Summary

Product Description	PE-conjugated Mouse Monoclonal antibody [BB27] recognizes CD101
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The clone BB27 recognizes CD101, a 140 kDa disulfide-bonded homodimeric protein expressed on activated T cells, and some other cell types, such as granulocytes and cells of the monocyte/macrophage lineage. HLDA V; WS Code T040
Host	Mouse
Clonality	Monoclonal
Clone	BB27
Isotype	IgG1
Target Name	CD101
Species	Human
Immunogen	Human thymic clone B12
Conjugation	PE
Alternate Names	Immunoglobulin superfamily member 2; IgSF2; CD antigen CD101; Cell surface glycoprotein V7; EWI-101; IGSF2; V7; Glu-Trp-Ile EWI motif-containing protein 101

Application Instructions

Application table	Application	Dilution
	FACS	10 µl / 10 ⁶ cells
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
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.

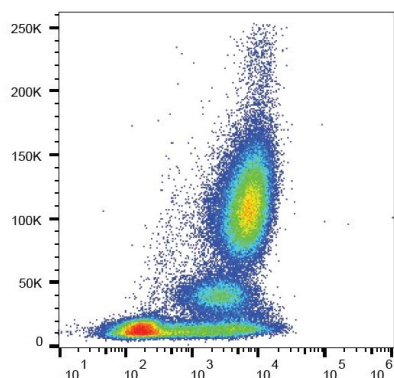
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 9398 Human Swiss-port # Q93033 Human
Gene Symbol	CD101
Gene Full Name	CD101 molecule
Background	CD101 is a type I transmembrane glycoprotein, which forms disulfide-linked homodimers. It is expressed on activated T cells, as well as on granulocytes, monocytes, dendritic cells or mucosal T cells. It plays a major role in the activation of T cells by skin dendritic cells. Function of CD101 has not been fully elucidated, but in mice its knock-out results in liver autoimmune disease induced by <i>Novosphingobium aromaticivorans</i> .
Function	Plays a role as inhibitor of T-cells proliferation induced by CD3. Inhibits expression of IL2RA on activated T-cells and secretion of IL2. Inhibits tyrosine kinases that are required for IL2 production and cellular proliferation. Inhibits phospholipase C-gamma-1/PLCG1 phosphorylation and subsequent CD3-induced changes in intracellular free calcium. Prevents nuclear translocation of nuclear factor of activated T-cell to the nucleus. Plays a role in the inhibition of T-cell proliferation via IL10 secretion by cutaneous dendritic cells. May be a marker of CD4(+) CD56(+) leukemic tumor cells. [UniProt]
Research Area	Immune System antibody
Calculated Mw	115 kDa
PTM	N-glycosylated.

Images



ARG54221 anti-CD101 antibody [BB27] (PE) FACS image

Flow Cytometry: Human peripheral blood stained with ARG54221 anti-CD101 antibody [BB27] (PE).