

## 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 <sup>6</sup> 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.

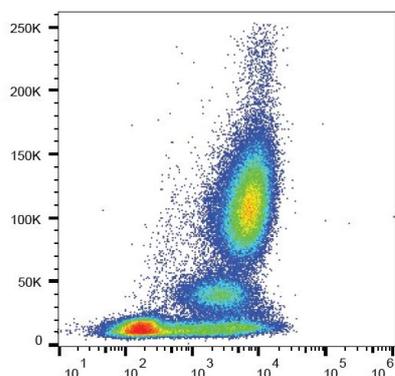
Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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Database links	<a href="#">GeneID: 9398 Human</a> <a href="#">Swiss-port # Q93033 Human</a>
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).