ARG65412
anti-CD101 antibody [BB27]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [BB27] recognizes CD101
Tested Reactivity	Hu
Tested Application	CyTOF®-candidate, FACS, IHC-Fr, IP, WB
Specificity	The clone BB27 recognizes CD101, a 140 kDa disulfide-bonded homodimeric protein expressed on activated T cells, and some ther cell types, such as granulocytes and cells of the monocyte/macropgage 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	Un-conjugated
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
CyTOF®-candidate	Assay-dependent
FACS	1 - 4 µg/ml
IHC-Fr	Assay-dependent
IP	Assay-dependent
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from hybridoma culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)

Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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 Novosphingobium aromaticivorans.
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]
Highlight	Related products: CD101 antibodies; Anti-Mouse IgG secondary antibodies; Related news: CyTOF-candidate Antibodies
Research Area	Immune System antibody
Calculated Mw	115 kDa
PTM	N-glycosylated.