

Datasheet: MCA2236F

BATCH NUMBER 1607

Description:	MOUSE ANTI HUMAN CD101:FITC
Specificity:	CD101
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	BB27
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/5 - 1/10

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use their own system using appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		

Immunogen Human thymic clone B12.

External Database

Links

UniProt:

[Q93033](#) [Related reagents](#)

Entrez Gene:

[9398](#) CD101 [Related reagents](#)

Synonyms

EWI101, IGSF2, V7

RRID

AB_324108

Specificity

Mouse anti Human CD101 antibody, clone BB27 recognizes human CD101, also known as Immunoglobulin superfamily member 2 (IgSF2), . Cell surface glycoprotein V7, Glu-Trp-Ile EWI motif-containing protein 101 or EWI-101. CD101 is a 1021 amino acid, including a 20 amino acid signal peptide, ~140 kDa single pass type I homodimeric cell surface glycoprotein expressed primarily by monocytes, granulocytes, dendritic cells and activated T lymphocytes.

CD101 plays a major role in the activation of T cells by skin dendritic cells. Mouse anti Human CD101 antibody, clone BB27 has been reported to inhibit allogeneic T-cell responses ([Bagot *et al.* 1997](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cell in 100ul.

References

1. Bagot, M. *et al.* (1997) CD101 is expressed by skin dendritic cells. Role in T-lymphocyte activation. [Tissue Antigens. 50 \(5\): 439-48.](#)
 2. Jovanovic, D.V. *et al.* (2011) CD101 expression and function in normal and rheumatoid arthritis-affected human T cells and monocytes/macrophages. [J Rheumatol. 38: 419-28.](#)
 3. Ohradanova-Repic, A. *et al.* (2016) Differentiation of human monocytes and derived subsets of macrophages and dendritic cells by the HLDA10 monoclonal antibody panel. [Clin Transl Immunology. 5 \(1\): e55.](#)
 4. Okuno, M. *et al.* (2017) Nucleotide substitutions in CD101, the human homolog of a diabetes susceptibility gene in non-obese diabetic mouse, in patients with type 1 diabetes. [J Diabetes Investig. 8 \(3\): 286-94.](#)
 5. Grassi, F. *et al.* (1998) Monocyte-derived dendritic cells have a phenotype comparable to that of dermal dendritic cells and display ultrastructural granules distinct from Birbeck granules. [J Leukoc Biol. 64 \(4\): 484-93.](#)
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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this

product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2236F 10041
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M366407:200529'

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