

Datasheet: MCA2236

BATCH NUMBER 169537

Description:	MOUSE ANTI HUMAN CD101
Specificity:	CD101
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	BB27
Isotype:	IgG1
Quantity:	0.2 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	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human thymic clone B12.
External Database Links	<p>UniProt: Q93033 Related reagents</p> <p>Entrez Gene: 9398 CD101 Related reagents</p>
Synonyms	EWI101, IGSF2, V7
RRID	AB_324417
Specificity	<p>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.</p> <p>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 <i>et al.</i> 1997).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 1. Bagot, M. <i>et al.</i> (1997) CD101 is expressed by skin dendritic cells. Role in T-lymphocyte activation. Tissue Antigens. 50 (5): 439-48. 2. Grassi, F. <i>et al.</i> (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. 3. Jovanovic, D.V. <i>et al.</i> (2011) CD101 expression and function in normal and rheumatoid arthritis-affected human T cells and monocytes/macrophages. J Rheumatol. 38: 419-28. 4. Ohradanova-Repic, A. <i>et al.</i> (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. 5. Okuno, M. <i>et al.</i> (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.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in</p>

frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2236 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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](https://www.bio-rad-antibodies.com/datasheets)
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