

Datasheet: MCA4661EL

Description:	MOUSE ANTI HUMAN DECTIN-1:Low Endotoxin
Specificity:	DECTIN-1
Other names:	BETA GLUCAN RECEPTOR, CD369
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	GE2
Isotype:	lgG1
Quantity:	0.5 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	•			Neat - 1/25
Immunohistology - Frozen				
Immunohistology - Paraffin				
ELISA				
Immunoprecipitation				
Western Blotting			•	
Functional Assays	•			

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 Assupernatant	A from tissue culture
Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	None present	

Carrier Free	Yes
Endotoxin Level	< 0.01 EU/ug
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	NIH3T3 cells expressing full length Beta-glucan receptor.
External Database Links	UniProt: Q9BXN2 Related reagents
	Entrez Gene: 64581 CLEC7A Related reagents
Synonyms	BGR, CLECSF12, DECTIN1
RRID	AB_1658097
Fusion Partners	Spleen cells from immunized C57BL/6 mice were fused with cells of the murine SP2 myeloma cell line.
Specificity	Mouse anti Human Dectin-1 antibody, clone GE2 recognizes human Dectin-1, also known as beta-glucan receptor (β GR), a C-type lectin domain family member. It is a major pathogen pattern-recognition receptor that binds beta-glucans, glucose polymers that form cell-wall components or exopolymers of yeasts, fungi and some bacteria. Beta-glucans have also been used experimentally and therapeutically as immunomodulators that enhance resistance to bacterial, yeast, viral and protozoan infections, as well as tumor formation. Dectin-1 also acts as a co-stimulatory molecule on T-cells to induce their proliferation and is necessary for the TLR2-mediated inflammatory response. It is highly expressed on peripheral blood leukocytes and dendritic cells.
	Human Dectin-1 has two major (β GR-A and β GR-B) and several minor isoforms. β GR-A and β GR-B differ by the presence and absence, respectively, of a stalk region. Mouse anti Human Dectin-1 antibody, clone GE2 recognizes both major isoforms. Clone GE2 could be used to inhibit receptor function.
Flow Cytometry	
	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.

- 4. Ali, M.F. et al. (2017) Canonical Stimulation of the NLRP3 Inflammasome by Fungal Antigens Links Innate and Adaptive B-Lymphocyte Responses by Modulating IL-1ß and IgM Production. Front Immunol. 8: 1504.
- 5. Kan, B. et al. (2018) Cellular metabolism constrains innate immune responses in early human ontogeny. Nat Commun. 9 (1): 4822.
- 6. de Quaglia E Silva. J.C.et al. (2019) Involvement of the Dectin-1 Receptor upon the Effector Mechanisms of Human Phagocytic Cells against Paracoccidioides brasiliensis. J Immunol Res. 2019: 1529189.

Storage Store at -20°C only.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. 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 **Health And Safety** Material Safety Datasheet documentation #10162 available at: Information https://www.bio-rad-antibodies.com/SDS/MCA4661EL 10162 Regulatory For research purposes only

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**

Rabbit Anti Mouse IgG (STAR13...) **HRP**

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 (STAR9...) **FITC**

Goat Anti Mouse IgG (STAR77...) **HRP**

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin (MCA928EL)

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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 'M367836:200529'

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