

Datasheet: MCA4662

Description:	MOUSE ANTI HUMAN DECTIN-1
Specificity:	DECTIN-1
Other names:	BETA GLUCAN RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	BD6
Isotype:	IgG2b
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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			1/25 - 1/200
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
Immunohistology - Resin			■	
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 G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	NIH3T3 cells expressing full length Beta-glucan receptor
External Database Links	<p>UniProt: Q9BXN2 CLC7A_HUMAN Related reagents</p> <p>Entrez Gene: 64581 CLEC7A Related reagents</p>
Synonyms	BGR, CLECSF12, DECTIN1

Fusion Partners	Spleen cells from immunised C57BL/6 were fused with cells of the murine SP2 myeloma cell line.
Specificity	<p>MCA4662 recognises human Dectin-1, also known as beta-glucan receptor (βGR), 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.</p> <p>Human Dectin-1 has two major (βGR-A and βGR-B) and several minor isoforms. βGR-A and βGR-B differs by the presence and absence, respectively, of a stalk region. Clone BD6 recognises βGR-A only.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul. Method sheets are available on request.
References	1. Willment <i>et al.</i> (2005) The human beta-glucan receptor is widely expressed and functionally equivalent to murine Dectin-1 on primary cells. Eur. J. Immunol. 35: 1539-1547.
Storage	<p>Store at $+4^{\circ}\text{C}$ or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.</p> <p>Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet Documentation #10040 available at: http://www.abdserotec.com/uploads/MSDS/10040.pdf

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@800 , FITC , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
HuCAL Anti Mouse IgG2b (HCA038...)	FITC , HRP , RPE
Sheep Anti Mouse IgG (H/L) (AAC10...)	Biotin , FITC
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

Other formats and applications

This reagent is also available in a [ALEXA FLUOR@ 488](#), [ALEXA FLUOR@ 647](#), [FITC](#), [RPE](#) format

For research purposes only, unless otherwise specified in writing by AbD Serotec.

'M186189:110225'



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