

## Datasheet: MCA4662PET

<b>Description:</b>	MOUSE ANTI HUMAN DECTIN-1:RPE
<b>Specificity:</b>	DECTIN-1
<b>Other names:</b>	BETA GLUCAN RECEPTOR
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	BD6
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	25 TESTS

### 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 0.25ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
	5% Sucrose		

<b>Immunogen</b>	NIH3T3 cells expressing full length Beta-glucan receptor.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9BXN2</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">64581</a>   CLEC7A   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	BGR, CLECSF12, DECTIN1
<b>RRID</b>	AB_2081662
<b>Fusion Partners</b>	Spleen cells from immunised C57BL/6 were fused with cells of the murine SP2 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human Dectin-1 antibody, clone BD6</b> recognizes human Dectin-1, also known as beta-glucan receptor (<math>\beta</math>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.</p> <p>Human Dectin-1 has two major (<math>\beta</math>GR-A and <math>\beta</math>GR-B) and several minor isoforms. <math>\beta</math>GR-A and <math>\beta</math>GR-B differs by the presence and absence, respectively, of a stalk region. Mouse anti Human Dectin-1 antibody, clone BD6 recognizes <math>\beta</math>GR-A only.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Willment, J.A. <i>et al.</i> (2005) The human beta-glucan receptor is widely expressed and functionally equivalent to murine Dectin-1 on primary cells. <a href="#">Eur J Immunol. 35 (5): 1539-47.</a></li> <li>Hoeksema, M.A. <i>et al.</i> (2014) Targeting macrophage Histone deacetylase 3 stabilizes atherosclerotic lesions. <a href="#">EMBO Mol Med. 6 (9): 1124-32.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of reconstitution.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>

## Related Products

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:RPE \(MCA691PE\)](#)

### Recommended Useful Reagents

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

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

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