


Product datasheet

Anti-Dectin-1 antibody [GE2] - Low endotoxin, Azide free ab82888

5 References 1 Image

Overview

<b>Product name</b>	Anti-Dectin-1 antibody [GE2] - Low endotoxin, Azide free
<b>Description</b>	Mouse monoclonal [GE2] to Dectin-1 - Low endotoxin, Azide free
<b>Host species</b>	Mouse
<b>Specificity</b>	Human beta Glucagon Receptor has two major ( $\beta$ GR-A and $\beta$ GR-B) and several minor isoforms. $\beta$ GR-A and $\beta$ GR-B differ by the presence and absence, respectively, of a stalk region. ab82888 (clone GE2) recognizes both isoform A and B.
<b>Tested applications</b>	<b>Suitable for:</b> Inhibition Assay, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Tissue, cells or virus corresponding to Human Dectin-1.
<b>Positive control</b>	Human peripheral blood monocytes

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.40 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Endotoxin level: <0.01EU/ug
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	GE2
<b>Myeloma</b>	Sp2
<b>Isotype</b>	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab82888** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

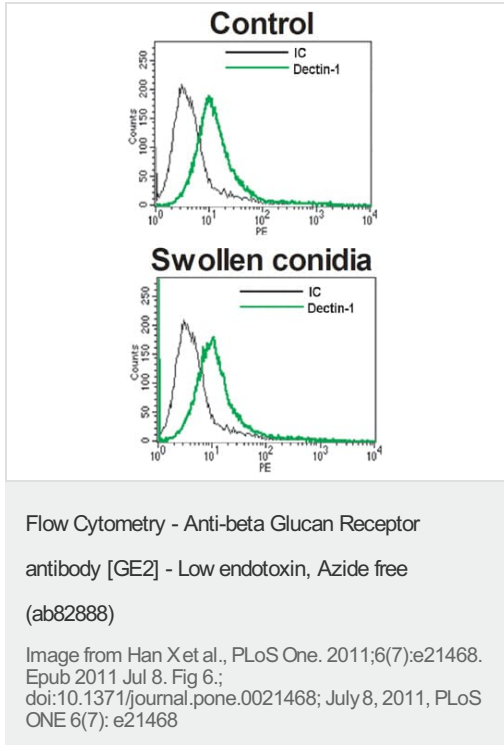
Application	Abreviews	Notes
Inhibition Assay		Use at an assay dependent concentration.
Flow Cyt		1/25. Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl.

[ab170190](#) - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

## Target

<b>Function</b>	Lectin that functions as pattern receptor specific for beta-1,3-linked and beta-1,6-linked glucans, such as cell wall constituents from pathogenic bacteria and fungi. Necessary for the TLR2-mediated inflammatory response and for TLR2-mediated activation of NF-kappa-B. Enhances cytokine production in macrophages and dendritic cells. Mediates production of reactive oxygen species in the cell. Mediates phagocytosis of C.albicans conidia. Binds T-cells in a way that does not involve their surface glycans and plays a role in T-cell activation. Stimulates T-cell proliferation.
<b>Tissue specificity</b>	Highly expressed in peripheral blood leukocytes and dendritic cells. Detected in spleen, bone marrow, lung, muscle, stomach and placenta.
<b>Involvement in disease</b>	Defects in CLEC7A may be a cause of familial candidiasis type 4 (CANDF4) [MIM:613108]. It is a rare disorder with altered immune responses and impaired clearance of fungal infections, selective against Candida. It is characterized by persistent and/or recurrent infections of the skin, nails and mucous membranes caused by organisms of the genus Candida, mainly Candida albicans.
<b>Sequence similarities</b>	Contains 1 C-type lectin domain.
<b>Post-translational modifications</b>	Phosphorylated on tyrosine residues in response to glucan binding.
<b>Cellular localization</b>	Cytoplasm and Cell membrane.

## Images



Flow cytometry analysis of A549 cells, staining beta Glucan Receptor (green) with ab82888.

Cells were infected with swollen conidia of *A. fumigatus* 13073 at an MOI of 10 or incubated with PBS (Control) for 30 min.

Subsequently, the cells were stained with isotype (IC) antibody or the primary antibody and analyzed by flow cytometry. A PE-conjugated goat anti-mouse IgG was used as the secondary antibody.

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