



Anti-CLEC7A monoclonal antibody, clone GE2 (CABT-47561MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

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 differs by the presence and absence, respectively, of a stalk region. Mouse anti Human Dectin-1 antibody, clone GE2 recognizes both of these isoforms. Clone GE2 could be used to inhibit receptor function. Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

Specificity	CLEC7A
Immunogen	NIH3T3 cells expressing full length Beta-glucan receptor.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	GE2
Conjugate	Unconjugated
Applications	FC

Format	Purified IgG - liquid
Size	100 µg
Preservative	0.09% Sodium Azide
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.

GENE INFORMATION

Gene Name	CLEC7A C-type lectin domain family 7, member A [Homo sapiens (human)]
Official Symbol	CLEC7A
Synonyms	CLEC7A; C-type lectin domain family 7, member A; BGR; CANDF4; DECTIN1; CLECSF12; C-type lectin domain family 7 member A; dectin-1; beta-glucan receptor; lectin-like receptor 1; DC-associated C-type lectin 1; C-type lectin superfamily member 12; dendritic
Entrez Gene ID	64581
Protein Refseq	NP_072092
UniProt ID	Q9BXN2
Chromosome Location	12p13.2
Pathway	Phagosome; Tuberculosis;
Function	MHC protein binding; carbohydrate binding; metal ion binding; signaling pattern recognition receptor activity;