



Anti-CLEC7A monoclonal antibody, clone GE2 [FITC] (CABT-47557MH)

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	FITC
Applications	FC

Format	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Size	100 µg
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. 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;