

Product datasheet for **SM2025P**

Clec7a Rat Monoclonal Antibody [Clone ID: 2A11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2A11
Applications:	FC, IHC, IP
Recommended Dilution:	ELISA. Immunohistochemistry on Frozen Sections: The epitope recognised by 2A11 is sensitive to H2O2 treatment, therefore quenching with 0.3% H2O2 should be performed after incubation with the primary antibody. Flow Cytometry: Use 10 µl of 1/10-1/50 diluted antibody to label 10e6 cells in 100 µl.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Dectin-1 transfected NIH3T3 cells and recombinant soluble Dectin-1. Spleen cells from immunised Fischer rats were fused with cells of the rat Y3 myeloma cell line.
Specificity:	This antibody recognises beta-glucan receptor, also known as Dectin-1. This antibody inhibits the binding of zymosan to macrophages via the beta-glucan receptor. The Low Endotoxin version (SM2025LE) is recommended for functional studies.
Formulation:	PBS, pH 7.4 containing 0.09% Sodium Azide State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	C-type lectin domain family 7, member a



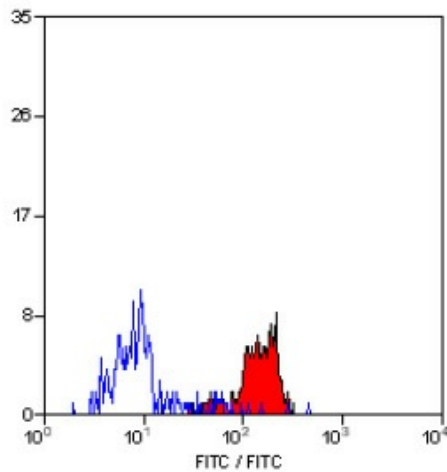
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Database Link: [Entrez Gene 56644 Mouse](#)
[Q6QLQ4](#)

Background: Dectin-1 is predominantly expressed by cells of the monocyte/macrophage and neutrophil lineages, but also at lower levels by dendritic cells and a subpopulation of T cells. As a major leucocyte receptor for beta-glucan this molecule may have a key role in the immunomodulatory effects of beta-glucans and in the host response to fungal pathogens. Recent work has shown that Dectin-1 may stimulate reactive oxygen production in macrophages via the protein tyrosine kinase known as Syk.

Synonyms: Beta-glucan receptor, BGR, CLECSF12, DECTIN1

Product images:



Staining of mouse peripheral blood monocytes with RAT ANTI MOUSE BETA GLUCAN RECEPTOR.