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Datasheet for ABIN7194495  
**CLEC7A Protein**

### Overview

Quantity:	100 µg
Target:	CLEC7A
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human Dectin-1/CLEC7A Protein
Sequence:	Thr66-Met201
Characteristics:	A DNA sequence encoding the extracellular domain of the human Dectin1 (NP_072092.2) (Thr66-Met201) was expressed.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	CLEC7A
Alternative Name:	Dectin-1/CLEC7A ( <a href="#">CLEC7A Products</a> )
Background:	Background: Dectin-1 was recently identified as the most important receptor for beta-glucan. It is a type II transmembrane protein which binds beta-1,3 and beta-1,6 glucans, and is expressed on most cells of the innate immune system and has been implicated in phagocytosis as well as killing of fungi by macrophages, neutrophils and dendritic cells. Recognition of beta-glucan by

## Target Details

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dectin-1 triggers effective immune response, including phagocytosis and proinflammatory factor production, to eliminate infecting fungi, which especially benefits immunocompromised patients against opportunistic fungal infection. In addition, dectin-1 is involved in the adaptive immune response as well as autoimmune diseases and immune tolerance. Dectin-1 can recognize and respond to live fungal pathogens and is being increasingly appreciated as having a key role in the innate responses to these pathogens. In addition to its exogenous ligands, Dectin-1 can recognize an unidentified endogenous ligand on T cells and may act as a co-stimulatory molecule. Recent studies have highlighted the importance of Dectin-1 in anti-fungal immunity, in both mice and humans, and have suggested a possible involvement of this receptor in the control of mycobacterial infections.

Synonym: Beta-glucan receptor, BGR, CD369, CLEC7A, CLECSF12, CLECSF12DC-associated C-type lectin 1, Dectin1, Dectin-1, DECTIN1CANDF4, CANDF4, DECTIN1

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Molecular Weight: 15.5 kDa

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NCBI Accession: [NP\\_072092](#)

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Pathways: [Activation of Innate immune Response](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Reconstitution: Please refer to the printed manual for detailed information.

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Buffer: Lyophilized from sterile PBS, pH 7.4

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Storage: 4 °C, -20 °C, -80 °C

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Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.