

C Type Lectin Receptors In Immunity



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C Type Lectin Receptors In

C-Type Lectin Receptors. These receptors are involved in fungal recognition and the modulation of the innate immune response . Soluble CLR s include MBL, an oligomeric protein that binds an array of carbohydrate patterns on pathogen surfaces. CLR s are expressed by most cell types including macrophages and dendritic cells (DCs),...

C-Type Lectin Receptors Review | InvivoGen

C-type lectin. A C-type lectin (CLEC) is a type of carbohydrate-binding protein domain known as a lectin. The C-type designation is from their requirement for calcium for binding. Proteins that contain C-type lectin domains have a diverse range of functions including cell-cell adhesion, immune response to pathogens and apoptosis.

C-type lectin - Wikipedia

C-type lectin receptors (CLR) The mannose receptor (MR) is a PRR primarily present on the surface of macrophages and dendritic cells. It belongs into the calcium-dependent multiple CRD group. The MR belongs to the multilectin receptor protein group and, like the TLRs, provides a link between innate and adaptive immunity.

Pattern recognition receptor - Wikipedia

Introduction. PRRs of relevance here are the signalling trans-membrane C-type lectin receptors (CLR s), which are widely recognized to play an essential role in antifungal immunity (see Hardison and Brown, 2012 for a recent review). Less well recognized is their role in immunity to other microorganisms.

Signalling C-Type lectin receptors, microbial recognition ...

Here, the authors discuss the role of C-type lectin receptor signalling pathways in the control of T helper cell differentiation and examine how these receptors and pathways can be harnessed for ...

C-type lectin receptors in the control of T helper cell ...

C-type lectin receptors (CLR s) are membrane proteins that bind self and/or non-self carbohydrates via conserved extracellular C-type lectin-like domains, and are glycosylated type II transmembrane proteins with single carbohydrate recognition domains (CRD) in their extracellular C-termini [1].

C-type lectin receptors in anti-fungal immunity ...

C-type Lectin Receptors. C-type lectin receptors (CLR s) are a diverse family of soluble and transmembrane proteins that contain one or more C-type lectin-like domains (CTL D). Multiple members of the CLR family are considered to be pattern recognition receptors (PRR s) due to their ability to recognize pathogen-associated molecules...

C-type Lectin Receptors Research Areas: R&D Systems

C-type lectin like receptors, such as dectin-1, dectin-2, DC-specific intercellular adhesion molecule 3-grabbing nonintegrin, and mannose receptor, recognize many fungal-derived allergens and other structurally similar allergens derived from house dust mites (HDM).

Frontiers | C-Type Lectin Receptors in Asthma | Immunology

Gringhuis, S. I. et al. C-type lectin DC-SIGN modulates Toll-like receptor signaling via Raf-1 kinase-dependent acetylation of transcription factor NF- κ B. *Immunity* 26, 605-616 (2007). This study identifies the RAF1 signalling pathway as being involved in the modulation of immune responses by DC-SIGN.

Signalling through C-type lectin receptors: shaping immune ...

C-Type Lectin Receptors. C-type lectins are a large group of proteins with a characteristic calcium-dependent carbohydrate recognition domain. Two families of transmembrane C-type lectin receptors (CLR s) have been characterized that recognize microbial antigens and are expressed primarily on dendritic cells and monocytes/macrophages...

C-Type Lectins - an overview | ScienceDirect Topics

C-type Lectins Receptors (CLR) are a large family of receptors that bind to carbohydrates. InvivoGen provides genes, agonist, antagonists and cell-based assay for Dectin-1, Mincle and dectin-2 studies.

C-type Lectins Receptors Research Tools and Reagents

Of all the pathogen recognition receptor (PRR) families, C-type lectin receptor (CLR)-induced intracellular signal cascades are indispensable for the initiation and regulation of anti-fungal immunity. Ongoing experiments over the last decade have elicited diverse CLR functions and novel regulatory mechanisms of CLR-mediated signaling pathways.

Frontiers | Regulation of C-Type Lectin Receptor-Mediated ...

Over recent years, a growing number of opsonic and non-opsonic PRRs that recognise these fungal PAMPs have been identified, however, of particular interest are those of the Toll-like receptor (TLR) and C-type lectin families, which appear to have central roles in antifungal immunity.

C-type lectin receptors in antifungal immunity: Trends in ...

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