

CD367/CLEC4A Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P78274
Synonyms:	CD367; Clec4a2; CLECSF6; DCIR; DDB27; HDCGC13P; LLIR; CLEC4A; DCIRLLIR
Species:	Mouse
Source:	HEK293
Accession:	Q9QZ15 (Q70-L238)
Gene ID:	26888
Molecular Weight:	60-65 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

The CD367/CLEC4A protein potentially plays a role in regulating immune reactivity and may have implications in modulating the differentiation and maturation of dendritic cells (DC). It is a C-type lectin receptor that can bind to carbohydrates such as mannose and fucose, as well as weakly interact with N-acetylglucosamine (GlcNAc) in a Ca(2+)-dependent manner. CD367/CLEC4A is involved in inhibiting B-cell-receptor-mediated calcium mobilization and protein tyrosine phosphorylation. Upon antigen stimulation, it undergoes clathrin-dependent endocytosis, delivering its antigenic cargo into the antigen presentation pathway and promoting cross-priming of CD8(+) T cells. This cross-presentation and cross-priming process can be enhanced by TLR7 and TLR8 agonists, resulting in increased expansion of CD8(+) T cells and high production of IFNG and TNF, while reducing levels of IL4, IL5, and IL13. In plasmacytoid dendritic cells, CD367/CLEC4A inhibits TLR9-mediated production of IFNA and TNF. Furthermore, its ITIM motif (immunoreceptor tyrosine-based inhibitory motifs) may contribute to the inhibition of B-cell-receptor-mediated calcium mobilization and protein tyrosine phosphorylation.

Caution: Product has not been fully validated for medical applications. For research use only.

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