

CD367/CLEC4A Protein, Mouse (Myc, His-SUMO)

Cat. No.:	HY-P71636
Synonyms:	Clec4a; Clec4a2; Clec5f6; DcirC-type lectin domain family 4 member A; C-type lectin superfamily member 6; Dendritic cell immunoreceptor; CD antigen CD367
Species:	Mouse
Source:	E. coli
Accession:	Q9QZ15 (70Q-238L)
Gene ID:	26888
Molecular Weight:	Approximately 39.6 kDa

PROPERTIES

AA Sequence	<p>Q K Y S Q L L E E K K A A K N I M H N E L N C T K S V S P M E D K V W S C C P K</p> <p>D W R L F G S H C Y L V P T V S S S A S W N K S E E N C S R M G A H L V V I Q S</p> <p>Q E E Q D F I T G I L D T H A A Y F I G L W D T G H R Q W Q W V D Q T P Y E E S</p> <p>I T F W H N G E P S S G N E K C A T I I Y R W K T G W G W N D I S C S L K Q K S</p> <p>V C Q M K K I N L</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>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-</p>
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mediated production of IFN α 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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