

CLEC4C Protein, Cynomolgus (HEK293, hFc)

Cat. No.:	HY-P700881
Synonyms:	BDCA-2; BDCA2; CLECSF11; CLECSF7; DLEC; HECL; CLEC4C; CD303; CD303; DLEC;
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5UWP4 (Y48-I212)
Gene ID:	102147129
Molecular Weight:	53-63 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus BDCA-2, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-BDCA-2 Antibody, hFc Tag with the EC ₅₀ of 13.1ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
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	The CLEC4C protein functions as a lectin-type cell surface receptor and is implicated in antigen capturing by dendritic cells. It specifically recognizes non-sialylated galactose-terminated biantennary glycans that contain the trisaccharide epitope Gal(beta1-3/4)GlcNAc(beta1-2)Man. Additionally, CLEC4C binds to serum IgG and efficiently targets ligands into antigen-processing and peptide-loading compartments for presentation to T-cells. Notably, it may mediate potent inhibition of the induction of IFN-alpha/beta expression in plasmacytoid dendritic cells and act as a signaling receptor, activating protein-tyrosine kinases and mobilizing intracellular calcium. The protein forms homodimers, underscoring its potential significance in cellular signaling and immune response modulation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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