

Human BDCA-2 Protein

Cat. No. BCA-HM102

Description

Source	Recombinant Human BDCA-2 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Phe46-Ile213.
Accession	Q8WTT0-1
Molecular Weight	The protein has a predicted MW of 20.93 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

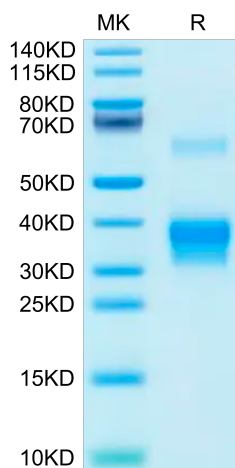
Formulation	Supplied as 0.22 μm filtered solution in 20mM Tris, 500mM NaCl, 200mM L-arginine (pH 8.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

BDCA-2 is a novel type II C-type lectin specifically expressed by plasmacytoid dendritic cells (PDCs) that can internalize antigen for presentation to T cells. Furthermore, signaling via BDCA-2 may play a role in switching from interferon (IFN)- α/β -controlled to interleukin (IL)-12-controlled immune response pathways, as triggering of BDCA-2 potently inhibits secretion of IFN- α/β by PDCs and thereby promotes IL-12 p70 production in PDCs and other cells.

Assay Data

Bis-Tris PAGE

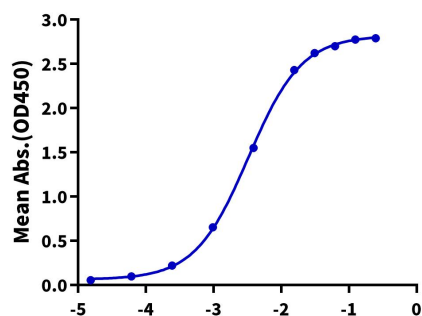


Human BDCA-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human BDCA-2, His Tag ELISA

0.05 μg Human BDCA-2, His Tag Per Well

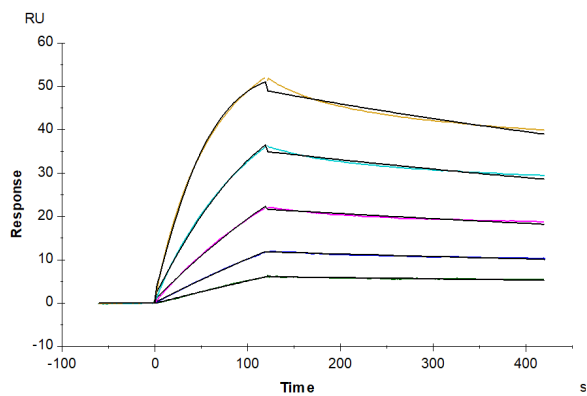


Immobilized Human BDCA-2, His Tag at 0.5 $\mu\text{g}/\text{ml}$ (100 μl /well) on the plate. Dose response curve for Anti-BDCA-2 Antibody, hFc Tag with the EC50 of 3.3ng/ml determined by ELISA (QC Test).

Log Anti-BDCA-2 Antibody, hFc Tag Conc. ($\mu\text{g}/\text{ml}$)

Assay Data

SPR Data



Anti-BDCA-2 Antibody captured on CM5 Chip via Protein A can bind Human BDCA-2, His Tag with an affinity constant of 2.97 nM as determined in SPR assay (Biacore T200) (Routine Test).