

Human BDCA-2 Protein

Cat. No. BCA-HM402



Description

Source	Recombinant Human BDCA-2 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus. It contains Phe46-Ile213.
Accession	Q8WTT0-1
Molecular Weight	The protein has a predicted MW of 22.7 kDa. Due to glycosylation, the protein migrates to 33-40 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

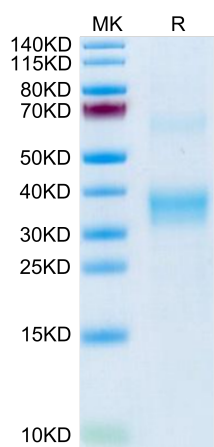
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM Tris, 150mM NaCl, 200mM L-arginine (pH 8.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. 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 potentially inhibits secretion of IFN- α/β by PDCs and thereby promotes IL-12 p70 production in PDCs and other cells.

Assay Data

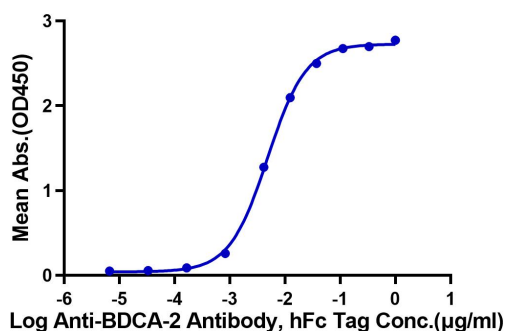
Bis-Tris PAGE



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 $\mu\text{l}/\text{Well}$) on the plate. Dose response curve for Anti-BDCA-2 Antibody, hFc Tag with the EC50 of 4.8ng/ml determined by ELISA.