

Biotinylated Human BDCA-2 Protein

Cat. No. BCA-HM402B

Description

Source	Recombinant Biotinylated 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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

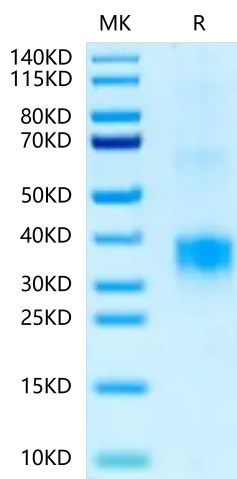
Formulation	Supplied as 0.22µm filtered solution in 20mM Tris, 300mM NaCl, 300mM L-arginine (pH 8.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

BDCA-2, BDCA-3, and BDCA-4. In blood, BDCA-2 and BDCA-4 are expressed on CD11c(-) CD123(bright) plasmacytoid dendritic cells, whereas BDCA-3 is expressed on small population of CD11c(+) CD123(-) dendritic cells. All three Ags are not detectable on a third blood dendritic cell population, which is CD1c(+) CD11c(bright) CD123(dim), or on any other cells in blood. BDCA-2 is completely down-regulated on plasmacytoid CD11c(-) CD123(bright) dendritic cells, BDCA-2 is rapidly internalized at 37 degrees C after mAb labeling.

Assay Data

Tris-Bis PAGE

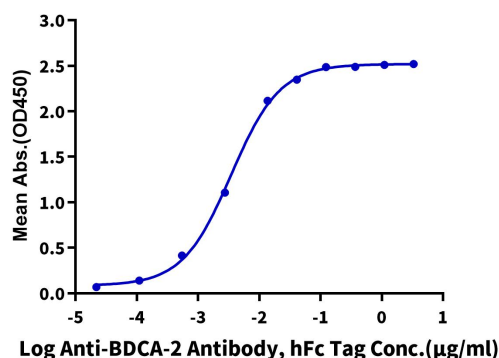


Biotinylated Human BDCA-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Biotinylated Human BDCA-2, His Tag ELISA

0.05µg Biotinylated Human BDCA-2, His Tag Per Well



Immobilized Biotinylated Human BDCA-2, His Tag at 0.5µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-BDCA-2 Antibody, hFc Tag with the EC50 of 3.5ng/ml determined by ELISA.