

Human BDCA-2 Protein

Cat. No. BCA-HM302

Description

Source	Recombinant Human BDCA-2 Protein is expressed from HEK293 with mFc tag at the N-Terminus. It contains Phe46-Ile213.
Accession	Q8WTT0-1
Molecular Weight	The protein has a predicted MW of 46.39 kDa. Due to glycosylation, the protein migrates to 55-65 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

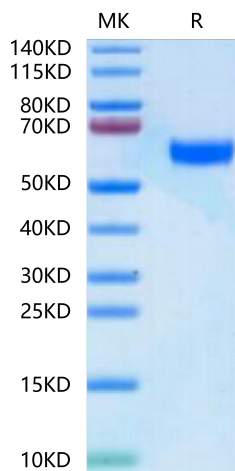
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM Tris, 150mM NaCl, 200mM L-arginine (pH 8.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. 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

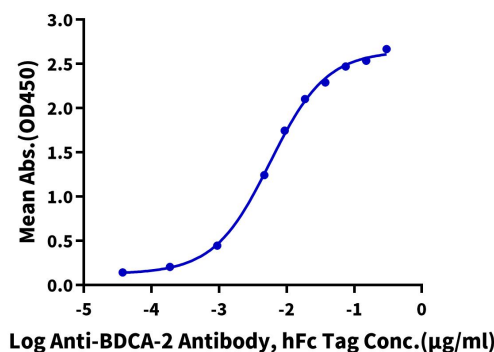


Human BDCA-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human BDCA-2, mFc Tag ELISA

0.05µg Human BDCA-2, mFc Tag Per Well



Immobilized Human BDCA-2, mFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-BDCA-2 Antibody, hFc Tag with the EC50 of 5.7ng/ml determined by ELISA.