

# Human BDCA-2 Protein

Cat. No. BCA-HM102

## Description

<b>Source</b>	Recombinant Human BDCA-2 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Phe46-Ile213.
<b>Accession</b>	Q8WTT0-1
<b>Molecular Weight</b>	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.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

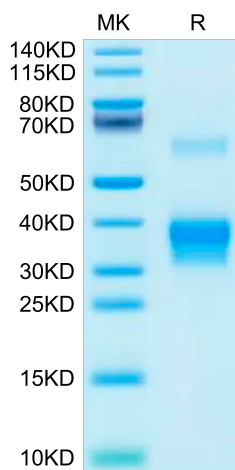
<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in 20mM Tris, 500mM NaCl, 200mM L-arginine (pH 8.5).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw 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

### Bis-Tris PAGE

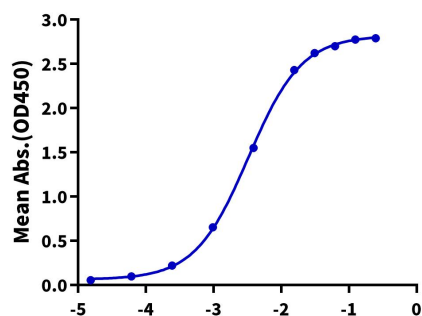


Human BDCA-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Human BDCA-2, His Tag ELISA

0.05 $\mu\text{g}$  Human BDCA-2, His Tag Per Well

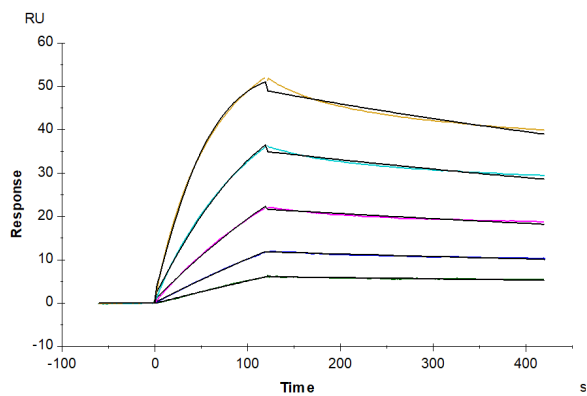


Immobilized Human BDCA-2, His Tag at 0.5 $\mu\text{g}/\text{ml}$  (100 $\mu\text{l}/\text{well}$ ) on the plate. Dose response curve for Anti-BDCA-2 Antibody, hFc Tag with the EC50 of 3.3ng/ml determined by ELISA (QC Test).

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).