

BDCA-2 Protein, Human, Recombinant (His)

General Information

Synonyms:	CD303;CLEC4C;BDCA2;CLECSF11;DLEC;CLECSF7;BDCA-2;HECL
Protein Construction:	Phe46-Ile213
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8WTT0-1
Molecular Weight:	20.93 kDa (predicted). Due to glycosylation, the protein migrates to 30-40 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Human BDCA-2, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-BDCA-2 Antibody, hFc Tag with the EC50 of 1.3ng/ml determined by ELISA (QC Test).2. 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 (Routine Test).
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in 20 mM Tris, 300 mM NaCl, 200 mM L-arginine (pH 8.5).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

Reference

Dzionic A, et al. BDCA-2, BDCA-3, and BDCA-4: three markers for distinct subsets of dendritic cells in human peripheral blood. J Immunol. 2000 Dec 1;165(11):6037-46. doi: 10.4049/jimmunol.165.11.6037. PMID: 11086035.

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