

BDCA-2 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	CD303;CLEC4C;BDCA-2;HECL;BDCA2;DLEC;CLECSF7;CLECSF11
Protein Construction:	Phe46-Ile213
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8WTT0-1
Molecular Weight:	47.1 kDa (predicted). Due to glycosylation, the protein migrates to 60-66 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human BDCA-2, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-BDCA-2 Antibody, hFc Tag with the EC50 of 11.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry 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

Dzionek 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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