

## HLDA10 VALIDATION FILE FOR CD368\_Clec4D

### More than two antibodies that have same expression pattern on primary cells Binding to transfectants

MOLECULE NAME: Clec4D

ALTERNATIVE NAMES: C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 8; C-type lectin domain family 4, member D; C-type lectin receptor; C-type lectin-like receptor 6; CLEC-6; CLEC4D; CLEC6; CLECSF8; macrophage C-type lectin; MCL; MGC40078; MPCL

GENE FAMILY: CTLR family

PROTEIN: Type II transmembrane protein, Homodimer and homotrimer

FUNCTION: Endocytic receptor

EXPRESSION: Found on myeloid cells

#### ANTIBODY INFORMATION

##### 10-21

Antibody Name: Clone #413512 FAB2806P

Specificity:

Antibody Species: Mouse

Ig Isotype: IgG2b

Immunogen: NS0-derived Recombinant human Clec4D (aa 52-215)

Epitope Recognised

Submitter: R&D

References: (1)

##### 10-78

Antibody Name: 9B9

Specificity:

Antibody Species: Mouse

Ig Isotype: IgG2b, κ

Immunogen: CLEC4D ectodomain:IgG Fc fusion protein

Epitope Recognised:

Submitter: BioLegend

References

## SPECIFICITY

	10-21	10-78
Expression on transfected cells	Pos	Pos
Expression on cell line	Neg	Neg
Expression on normal primary cell	Yes, expressed by monocytes Pos on CD11b+ DC, neg on CD11b- DC, possible polymorphism between donors	Yes Pos on CD11b+ DC, neg on CD11b- DC, possible polymorphism between donors
In vitro derived cells	Neg on CD34 derived LC Positive on fresh LC Pos on Monocytes	Neg on CD34 derived LC Pos on LPS activation of monocytes

## CELL LINE EXPRESSION

	Cell lines	10-21	10-78
Burkitt lymphoma B cell lines	Raji	-	-
T cell leukemia	Jurkat	-	-
Myeloid Leukemia	HEL	-	-
	NB4	-	-
	HL-60	-	-
	U-937	-	-
Hodgkins derived line	KM-H2	-	-

Figure 1, Binding of 10-21 and 10-78 to CHO transiently transfected with Clec4D cDNA..

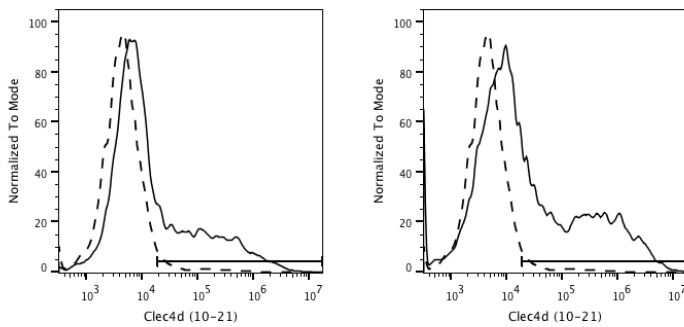
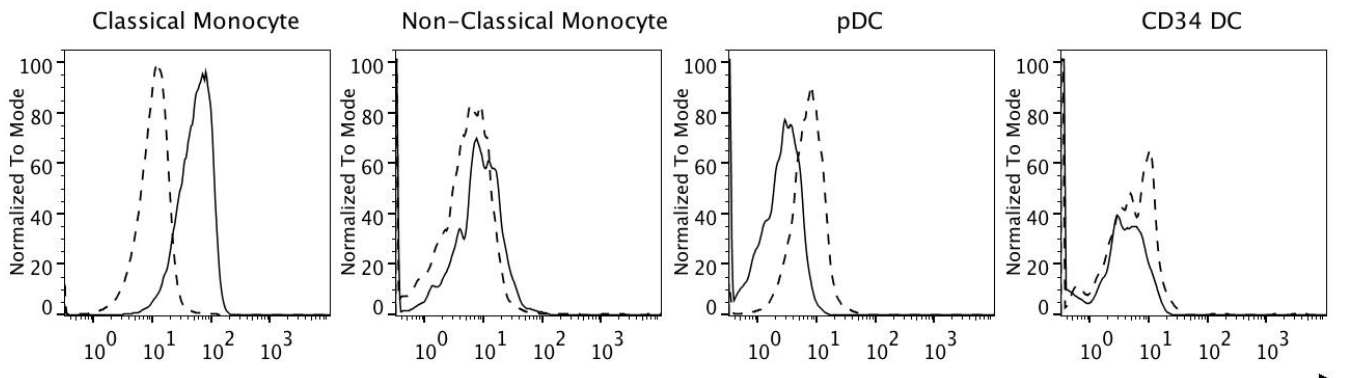
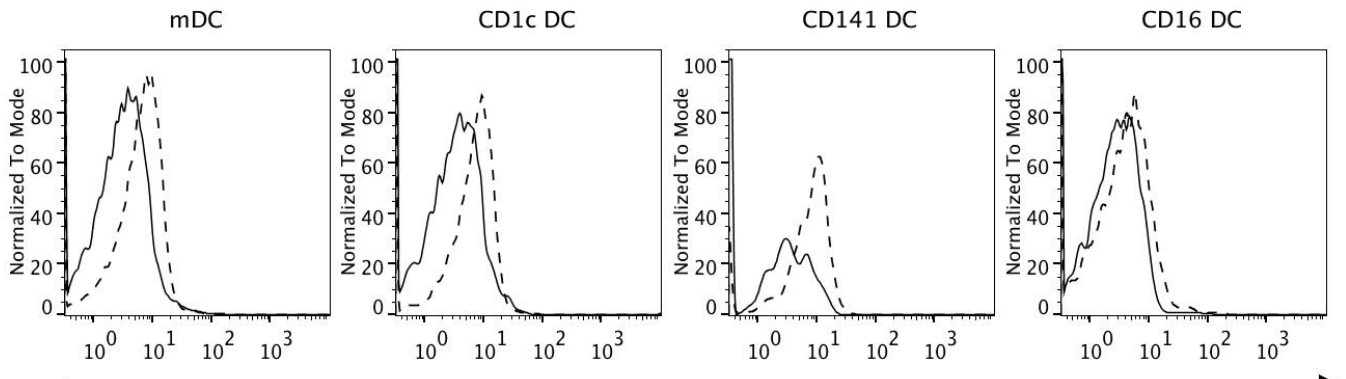


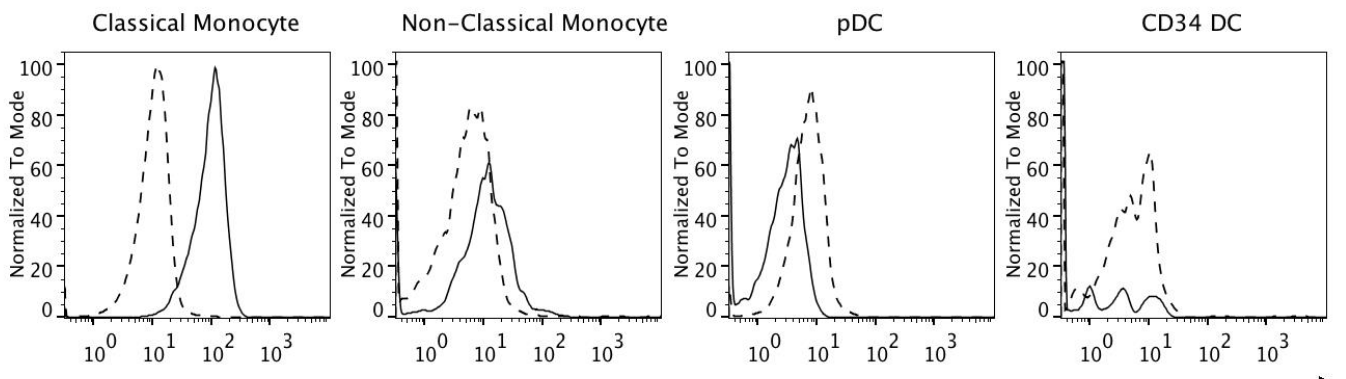
Figure 2: Binding of each antibody with fresh blood DC. Solid line = test antibody, dashed line = isotype control.



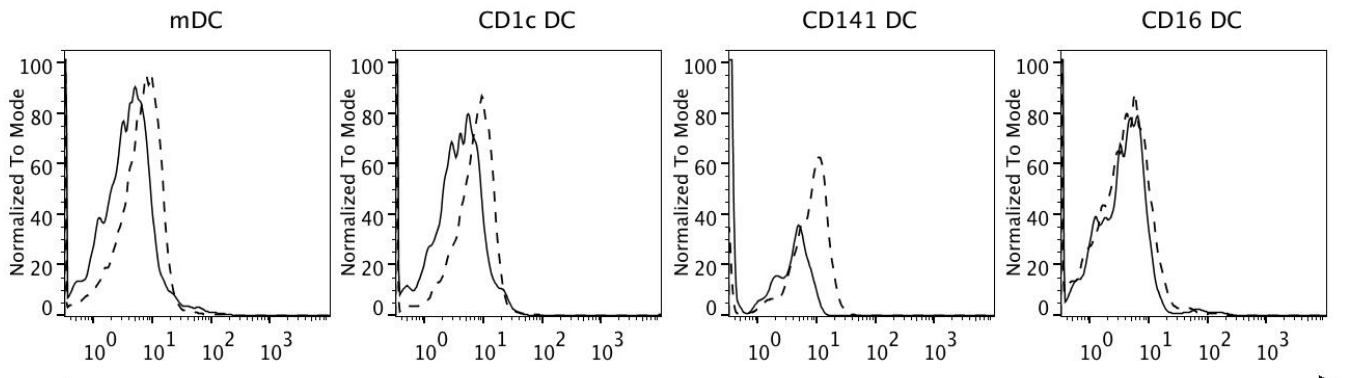
10-21



10-21

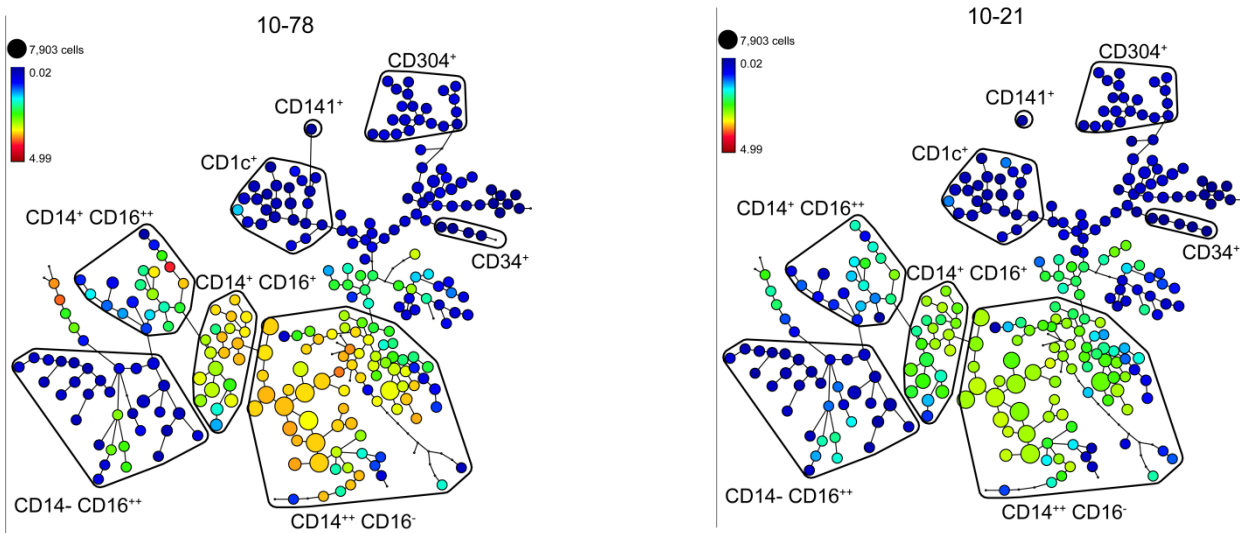


10-78



10-78

Figure 3. Clustering analysis using SPADE to demonstrate expression of Clec4D antibodies on fresh blood DC.



### PUBLICATIONS USING ANTIBODIES

1. Graham LM, Gupta V, Schafer G, Reid DM, Kimberg M, Dennehy KM, et al. The C-type lectin receptor CLECSF8 (CLEC4D) is expressed by myeloid cells and triggers cellular activation through Syk kinase. *The Journal of biological chemistry*. 2012;287(31):25964-74. Epub 2012/06/13.