

HLDA10 VALIDATION FILE FOR CD365 TIM-1

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

MOLECULE NAME:	TIM-1
ALTERNATIVE NAMES:	Hepatitis A virus cellular receptor 1 (HAVcr-1), Kidney injury molecule 1 (KIM-1), T-cell immunoglobulin and mucin domain-containing protein 1, (TIMD-1), T-cell immunoglobulin mucin receptor 1 (TIM-1), T-cell membrane protein 1
GENE FAMILY:	Ig gene superfamily
PROTEIN:	Single pass type-1 membrane protein
FUNCTION:	In case of human hepatitis A virus (HHAV) infection, functions as a cell-surface receptor for the virus.
EXPRESSION	Widely expressed, with highest levels in kidney and testis. Expressed by ctivated CD4+ T-cells during the development of helper T-cells responses.

ANTIBODY INFORMATION

10-14

Antibody Name	FAB1750P
Specificity	Activated Th2 cells
Antibody Species	mouse
Ig Isotype	IgG2b
Immunogen	NS0 Human TIM-1
Epitope Recognised	
Submitter	R&D
References	

10-67

Antibody Name	1D12
Specificity	
Antibody Species	Mouse
Ig Isotype	IgG1. K
Immunogen	Human TIM-1-IgV Fc
Epitope Recognised	
Submitter	BioLegend
References	(1)

INFORMATION FOR CONFIRMATION OF SPECIFICITY

	10-14	10-67
Expression on transfected CHO	Yes	Yes
Expression on cell line	Expressed weakly on Raji, Daudi	
Expression on normal primary cell	Expressed weakly on B cell subset	Weak on pDC and CD1c DC
Thymic DC	Weak on CD11b thymic DC	Weak on CD11b thymic DC
Ex vivo cells	Pos on CD1a cultured LC	

CELL LINE EXPRESSION

	Cell lines	10-14	10-67
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. Tim-1 mAb bind to transient transfectants expressing TIM-1 cDNA

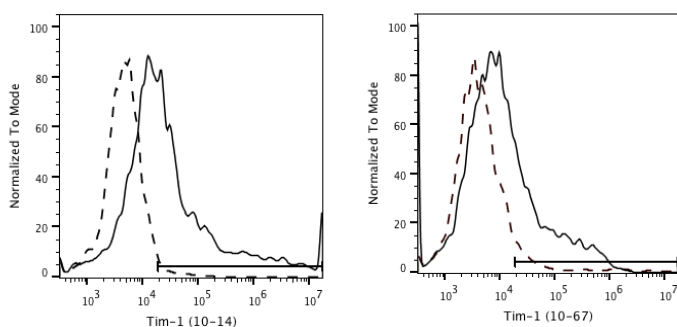


Figure 2. Binding of mAb to fresh blood DC

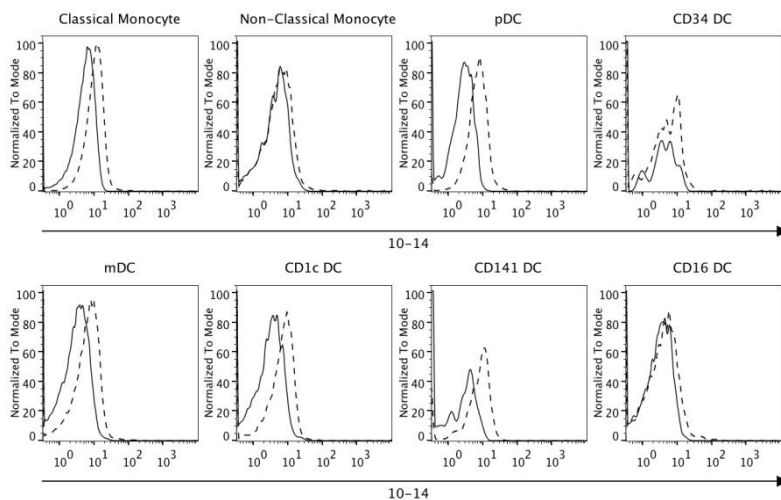
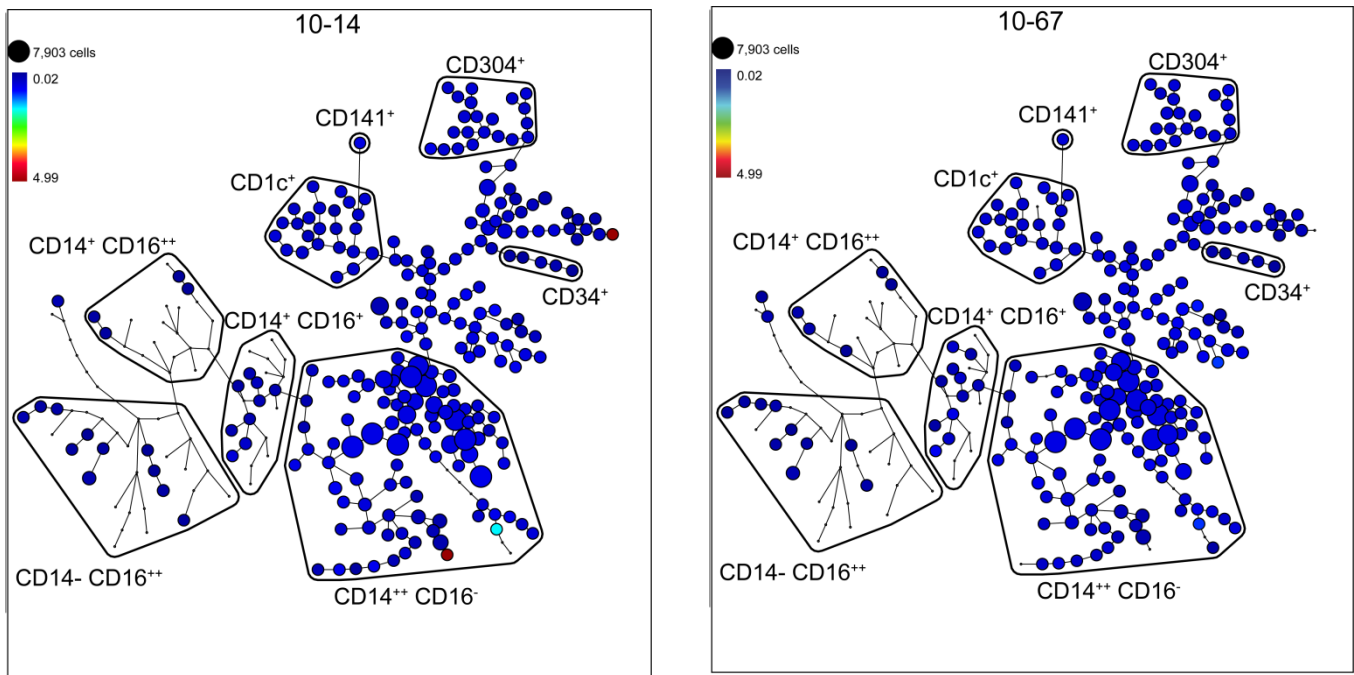


Figure 3. Clustering analysis using SPADE to demonstrate expression of TIM3 antibodies on fresh blood DC



PUBLICATIONS USING ANTIBODIES

1. Kobayashi N, Karisola P, Pena-Cruz V, Dorfman DM, Jinushi M, Umetsu SE, et al. TIM-1 and TIM-4 glycoproteins bind phosphatidylserine and mediate uptake of apoptotic cells. *Immunity*. 2007;27(6):927-40. Epub 2007/12/18.