

HLDA9 ANTIBODY VALIDATION FILE

ANTIBODY INFORMATION

Antibody Name: TX61

Specificity: CD351, Human FCA/MR

Antibody species: Mouse

Ig Isotype: IgG1

Immunogen: Transfected cells

Epitope recognized: not determined

Submitter: Akira Shibuya (University of Tsukuba, Ibaraki, Japan)

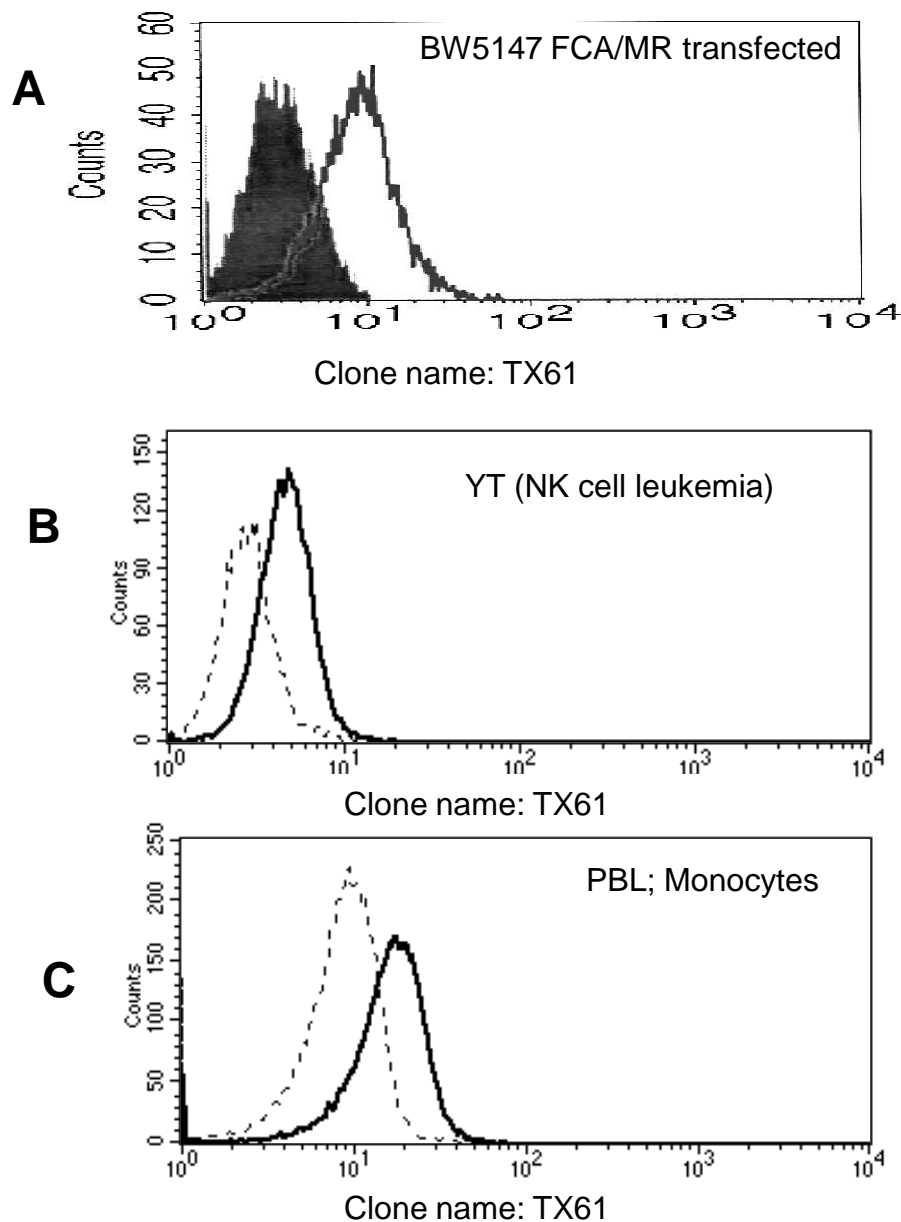
INFORMATION FOR CONFIRMATION OF SPECIFICITY:

Expression on transfected BW5147: positive. (Fig. 1A)

Expression on the cell- surface of cell line: positive with NK cell leukemia line YT. (Fig. 1B)

Expression on cell- surface of normal cell: positive with PBL's Monocyte cells. (Fig. 1C)

Figure 1:



Reactivity of CD351 with cell lines

	Cell lines	CD351
Burkitt lymphoma B cell lines	Daudi	-
	Raji	-
T cell leukemia	Jurkat	-
NK cell leukemia	YT	+
Myeloid leukemia	U937	-
	HL-60	-

Reactivity of CD351 with PBL

Lymphocytes	+
Granulocytes	-
Monocytes	++

INFORMATION PROVIDED BY SUBMITTER

Publications:

Sakamoto N, Shibuya K, Shimizu Y, Yotsumoto K, Miyabayashi T, Sakano S, Tsuji T, Nakayama E, Nakauchi H, Shibuya A. A novel Fc receptor for IgA and IgM is expressed on both hematopoietic and non-hematopoietic tissues. *Eur J Immunol*. 2001 May;31(5):1310-6.

Shibuya A, Sakamoto N, Shimizu Y, Shibuya K, Osawa M, Hiroyama T, Eyre HJ, Sutherland GR, Endo Y, Fujita T, Miyabayashi T, Sakano S, Tsuji T, Nakayama E, Phillips JH, Lanier LL, Nakauchi H. Fc alpha/mu receptor mediates endocytosis of IgM-coated microbes. *Nat Immunol*. 2000 Nov;1(5):441-6.

Cho Y, Usui K, Honda S, Tahara-Hanaoka S, Shibuya K, Shibuya A. Molecular characteristics of IgA and IgM Fc binding to the Fc alpha/muR. *Biochem Biophys Res Commun*. 2006 Jun 23;345(1):474-8.

Honda S, Kurita N, Miyamoto A, Cho Y, Usui K, Takeshita K, Takahashi S, Yasui T, Kikutani H, Kinoshita T, Fujita T, Tahara-Hanaoka S, Shibuya K, Shibuya A. Enhanced humoral immune responses against T-independent antigens in Fc alpha/muR-deficient mice. *Proc Natl Acad Sci U S A*. 2009 Jul 7;106(27):11230-5.

Kikuno K, Kang DW, Tahara K, Torii I, Kubagawa HM, Ho KJ, Baudino L, Nishizaki N, Shibuya A, Kubagawa H. Unusual biochemical features and follicular dendritic cell expression of human Fc alpha/mu receptor. *Eur J Immunol*. 2007

Patents:

Licensed to a company and which one: Under negotiation with a company

Was it evaluated in a previous workshop? No