

HLA-ABC Monoclonal Antibody (W6/32), FITC

Catalog NumberMA1-80454

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Bovine, Human, Non-human primate, Shrew
Host/Isotope	Mouse / IgG2a	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution *5 µL (1 µg)/test
Clone	W6/32	Immunocytochemistry (ICC/IF)	5 µg/mL
Immunogen	Purified human tonsil lymphocyte membranes.	Published Applications	
Conjugate	FITC	Flow Cytometry (Flow)	See 3 publications below
Form	Liquid	Immunocytochemistry (ICC/IF)	See 2 publications below
Concentration	5 µL/Test	Western Blot (WB)	See 1 publications below
Purification	Affinity chromatography	ELISA (ELISA)	See 1 publications below
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Contains	0.09% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

This antibody does not react with amphibian, chicken, dog, goat, guinea pig, mouse or rabbit. For FACS analysis, use 10 µL of the suggested working dilution to label 1x10^6 cells in 100 µL. Mouse anti Human HLA ABC antibody, clone W6/32 recognizes an antigenic determinant shared among products of the HLA A, B and C loci. Clone W6/32 recognizes a conformational epitope, reacting with HLA class I alpha3 and alpha2 domains.

Background/Target Information

HLA-class I major histocompatibility (MHC) antigens are intrinsic membrane glycoproteins expressed on nucleated cells and noncovalently associated with an invariant beta2 microglobulin. They carry foreign determinants important for immune recognition by cytotoxic T cells, thus important for anti-viral and anti-tumor defense. Human HLA-class I antigens are represented by HLA-A, HLA-B and HLA-C molecules. HLA and MHC antibodies play a significant role in Immunopeptidomics, facilitating the identification and characterization of neoantigens through high-performance liquid chromatography coupled to tandem Mass Spectrometry.

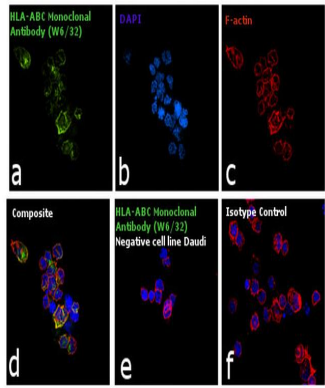
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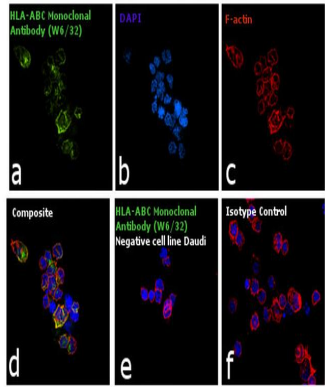
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Product Images For HLA-ABC Monoclonal Antibody (W6/32), FITC



HLA-ABC Antibody (MA1-80454)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Relative expression of HLA-ABC was observed in Raji when compared to Daudi using product (Product # MA1-80454) in Immunocytochemistry. {RE}



HLA-ABC Antibody (MA1-80454) in ICC/IF

Immunofluorescence analysis of HLA-ABC was performed using 70% confluent log phase Raji (B-cell lineage) cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with HLA-ABC Monoclonal Antibody (W6/32), FITC (Product # MA1-80454) at 5 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing plasma membrane localization. Panel e represents negative control, Daudi cells. Panel f represents isotype control cells to assess background. The images were captured at 60X magnification.

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PubMed References For HLA-ABC Monoclonal Antibody (W6/32), FITC

3 Flow Cytometry References

Species / Dilution	Summary
Human / Not Cited	MA1-80454 was used in flow cytometry to study the induction of metastatic cancer stem cells from UP-LN1 cell line
	Laboratory investigation; a journal of technical methods and pathology (2011; 91: 1502) "Induction of metastatic cancer stem cells from the NK/LAK-resistant floating, but not adherent, subset of the UP-LN1 carcinoma cell line by IFN-." Author(s):Chen HC,Chou AS,Liu YC,Hsieh CH,Kang CC,Pang ST,Yeh CT,Liu HP,Liao SK PubMed Article URL: http://dx.doi.org/10.1038/labinvest.2011.91
Human / 5 µg/mL	MA1-80454 was used in flow cytometry to study the presence in a sarcomatoid renal carcinoma cell line of both epithelioid and fibroblastoid cells
	Anticancer research (2013; 33: 4875) "Co-existence of epithelioid and fibroblastoid subsets in a sarcomatoid renal carcinoma cell line revealed by clonal studies." Author(s):Hsieh CH,Chen HC,Chang YH,Pang ST,Kuo ML,Chuang CK,Liao SK PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/24222125
Human / 1:50	MA180454 was used in flow cytometry to develop and characterize a humanized ossicle xenotransplantation approach
	Nature medicine (2016; 22: 812) "A humanized bone marrow ossicle xenotransplantation model enables improved engraftment of healthy and leukemic human hematopoietic cells." Author(s):Reinisch A,Thomas D,Corces MR,Zhang X,Gratzinger D,Hong WJ,Schallmoser K,Strunk D,Majeti R PubMed Article URL: http://dx.doi.org/10.1038/nm.4103

2 Immunocytochemistry References

Species / Dilution	Summary
Human / Not Cited	MA1-80454 was used in immunocytochemistry to study alterations in Arf6-regulated plasma membrane endosomal recycling in cells overexpressing Gas3/PMP22
	Journal of cell science (2003; 116: 987) "Alterations in the Arf6-regulated plasma membrane endosomal recycling pathway in cells overexpressing the tetraspan protein Gas3/PMP22." Author(s):Chies R,Nobbio L,Edomi P,Schenone A,Schneider C,Brancolini C PubMed Article URL: http://dx.doi.org/10.1242/jcs.00326
Human / 1:300	MA1-80454 was used in immunocytochemistry to study the role of clathrin-dependent and clathrin-independent routes in the uptake of Helicobacter pylori vesicles by gastric epithelial cells
	mBio (2014; 5: e00979) "Uptake of Helicobacter pylori vesicles is facilitated by clathrin-dependent and clathrin-independent endocytic pathways." Author(s):Olofsson A,Nygård Skalman L,Obi I,Lundmark R,Arnqvist A PubMed Article URL: http://dx.doi.org/10.1128/mBio.00979-14

1 Western Blot References

Species / Dilution	Summary
Not Applicable / Not Cited	MA1-80454 was used in western blot to report that the human herpesvirus-7 U21 gene product interferes with natural killer cell recognition
	PLoS pathogens (2011; 7:) "The human herpesvirus-7 (HHV-7) U21 immunoevasin subverts NK-mediated cytotoxicity through modulation of MICA and MICB." Author(s):Schneider CL,Hudson AW PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1002362

1 ELISA References

Species / Dilution	Summary
Human / 5 µg/mL	MA1-80454 was used in ELISA to develop a quantitative ELISA assay for studying peptide-MHC class I interactions
	Tissue antigens (2002; 59: 251) "Establishment of a quantitative ELISA capable of determining peptide - MHC class I interaction." Author(s):Sylvester-Hvid C,Kristensen N,Blicher T,Ferré H,Lauemøller SL,Wolf XA,Lamberth K,Nissen MH,Pedersen LØ, Buus S PubMed Article URL: http://dx.doi.org/10.1034/j.1399-0039.2002.590402.x

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