

CD45RO Monoclonal Antibody (UCHL1), FITC

Catalog NumberMA1-10235

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG2a	Published species	Human, Mouse, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * 20 µL/1x10^6 cells
Clone	UCHL1	Published Applications	
Immunogen	Human IL-2 dependent T cells	Immunohistochemistry (IHC)	See 7 publications below
Conjugate	FITC	Flow Cytometry (Flow)	See 2 publications below
Form	Liquid	Immunocytochemistry (ICC/IF)	See 1 publications below
Purification	Size-exclusion chromatography	Miscellaneous PubMed (Misc)	See 1 publications below
Storage buffer	PBS, pH 7.4, with 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	15mM sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Background/Target Information

CD45RO (UCHL1, ubiquitin carboxyl terminal esterase L1) is the shortest isoform of a receptor-type protein tyrosine phosphatase, CD45 glycoprotein. CD45 is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases, promotes cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis. CD45 isoforms differ in their extracellular domains, whereas they share identical transmembrane and cytoplasmic domains. CD45 isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. CD45RO is expressed on macrophages, CD8+ T cells, activated T cells and myeloma cells. Besides the role in immunoreceptor signaling, CD45 is important in promoting cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis.

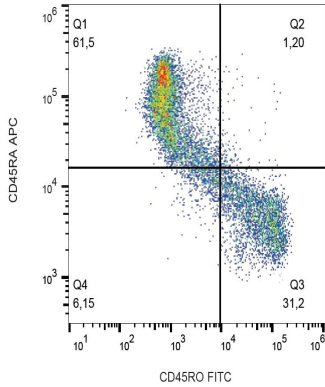
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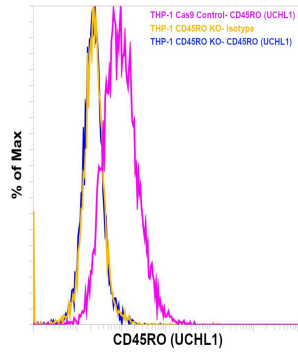
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Product Images For CD45RO Monoclonal Antibody (UCHL1), FITC



CD45RO Antibody (MA1-10235) in Flow

Flow cytometry analysis (surface staining) of CD45RO in human peripheral blood with anti-CD45RO (UCHL1) FITC Monoclonal antibody (Product # MA1-10235).



CD45RO Antibody (MA1-10235)

Antibody clone (UCHL1) specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. Loss of signal was observed for target protein in UCHL1 KO cells (blue histogram) compared to the control Cas9 cells (pink histogram) using CD45RO antibody (UCHL1). Yellow histogram represents staining with the isotype control. {KO}

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PubMed References For CD45RO Monoclonal Antibody (UCHL1), FITC

7 Immunohistochemistry References

Species / Dilution	Summary
Human / 1:1000	MA1-10235 was used in immunohistochemistry to report on a case of small plaque parapsoriasis with plaque-stage mycosis fungoides
	Journal of the American Academy of Dermatology (2008; 59: 474) "A patient with clinicopathologic features of small plaque parapsoriasis presenting later with plaque-stage mycosis fungoides: report of a case and comparative retrospective study of 27 cases of "nonprogressive" small plaque parapsoriasis." Author(s):Belousova IE,Vanecek T,Samtsov AV,Michal M,Kazakov DV PubMed Article URL: http://dx.doi.org/10.1016/j.jaad.2008.05.028
Human / 1:1000	MA1-10235 was used in immunohistochemistry to report on a case of utaneous lymphoma of the head co-expressing CD56 and CD30
	Journal of cutaneous pathology (2006; 33: 584) "Primary cutaneous histiocyte and neutrophil-rich CD30+ and CD56+ anaplastic large-cell lymphoma with prominent angioinvasion and nerve involvement in the forehead and scalp of an immunocompetent woman." Author(s):Boudova L,Kazakov DV,Jindra P,Sima R,Vanecek T,Kuntscher V,Vera V,Bouda J,Michal M PubMed Article URL: http://dx.doi.org/10.1111/j.1600-0560.2006.00488.x
Human / 1:1000	MA1-10235 was used in immunohistochemistry to study 53 cases of cutaneous lymphoproliferative disorders
	The American journal of surgical pathology (2008; 32: 1468) "Hyperplasia of hair follicles and other adnexal structures in cutaneous lymphoproliferative disorders: a study of 53 cases, including so-called pseudolymphomatous folliculitis and overt lymphomas." Author(s):Kazakov DV,Belousova IE,Kacerovska D,Sima R,Vanecek T,Vazmitel M,Pizinger K,Michal M PubMed Article URL: http://dx.doi.org/10.1097/PAS.0b013e31817bdcfb
Human / Not Cited	MA1-10235 was used in immunohistochemistry to compare the clinocopathology of T-cell rich B-cell lymphoma and diffuse large B-cell lymphoma
	Leukemia research (2004; 28: 229) "T-cell-rich B-cell lymphoma: a clinicopathologic study of 21 cases and comparison with 43 cases of diffuse large B-cell lymphoma." Author(s):Aki H,Tuzuner N,Ongoren S,Baslar Z,Soysal T,Ferhanoglu B,Sahinler I,Aydin Y,Ulku B,Aktuglu G PubMed Article URL: http://dx.doi.org/10.1016/s0145-2126(03)00253-4
Human / Not Cited	MA1-10235 was used in immunohistochemistry to report on a case of giant primary sclerosing lipogranuloma of the scrotum
	Turk patoloji dergisi (2014; 30: 78) "A giant primary sclerosing lipogranuloma of the scrotum." Author(s):Mungan S,Karagüzel E,Turan C,Res A PubMed Article URL: http://dx.doi.org/10.5146/tjpath.2013.01214
Human / 1:1000	MA1-10235 was used in immunohistochemistry to study the clinicopathological spectrum of lymphoproliferations and other lymphoid infiltration of the breast nipple
	The American Journal of dermatopathology (2005; 27: 375) "Cutaneous lymphoid hyperplasia and other lymphoid infiltrates of the breast nipple: a retrospective clinicopathologic study of fifty-six patients." Author(s):Boudova L,Kazakov DV,Sima R,Vanecek T,Torlakovic E,Lamovec J,Kutzner H,Szepe P,Plank L,Bouda J,Hes O,Mukensnabl P,Michal M PubMed Article URL: http://dx.doi.org/10.1097/01.dad.0000179463.55129.8a
Mouse / Not Cited	MA1-10235 was used in immunohistochemistry to study the role of Ret in the neurturin-mediated formation of precise axonal projections in the central nervous system
	Development (Cambridge, England) (2010; 137: 2319) "Axonal projections of mechanoreceptive dorsal root ganglion neurons depend on Ret." Author(s):Honma Y,Kawano M,Kohsaka S,Ogawa M PubMed Article URL: http://dx.doi.org/10.1242/dev.046995

2 Flow Cytometry References

Species / Dilution	Summary
Not Applicable / Not Cited	MA1-10235 was used in flow cytometry to examine the frequency, phenotype, and function of T regulatory cells in patients with systemic lupus erythematosus and inactive disease
	Clinical and experimental immunology (2008; 153: 44) "Natural regulatory T cells: number and function are normal in the majority of patients with lupus nephritis." Author(s):Yates J,Whittington A,Mitchell P,Lechler RI,Lightstone L,Lombardi G PubMed Article URL: http://dx.doi.org/10.1111/j.1365-2249.2008.03665.x

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Human / Not Cited	<p>MA1-10235 was used in Flow Cytometry to compare tumour-infiltrating lymphocytes from B cell non-Hodgkin's lymphomas with T cells from nonmalignant secondary lymphoid organs.</p> <p>The Journal of clinical investigation (1998; 102: 1715) "CD3 hyporesponsiveness and in vitro apoptosis are features of T cells from both malignant and nonmalignant secondary lymphoid organs." Author(s):Agrawal S,Marquet J,Delfau-Larue MH,Copie-Bergman C,Jouault H,Reyes F,Bensussan A,Farcet JP PubMed Article URL:http://dx.doi.org/10.1172/JCI3784</p>
1 Immunocytochemistry References	
Species / Dilution	Summary
Human / 1:2,500	<p>MA1-10235 was used in immunocytochemistry to investigate the expression of carboxyl-terminal hydrolyase L1 gene in human airway epithelium of cigarette smokers</p> <p>Cancer research (2006; 66: 10729) "Up-regulation of expression of the ubiquitin carboxyl-terminal hydrolase L1 gene in human airway epithelium of cigarette smokers." Author(s):Carolan BJ,Heguy A,Harvey BG,Leopold PL,Ferris B,Crystal RG PubMed Article URL:http://dx.doi.org/10.1158/0008-5472.CAN-06-2224</p>
1 Miscellaneous PubMed References	
Species / Dilution	Summary
Human / Not Cited	<p>MA1-10235 was used in flow cytometry to test if type-I interferons influence dendritic cell differentiation and function.</p> <p>Blood (2000; 96: 210) "Interferon-alpha and -beta inhibit the in vitro differentiation of immunocompetent human dendritic cells from CD14(+) precursors." Author(s):McRae BL,Nagai T,Semnani RT,van Seventer JM,van Seventer GA PubMed Article URL:http://www.ncbi.nlm.nih.gov/pubmed/10891453</p>

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