

CD15 Monoclonal Antibody (MMA (LeuM1))

Catalog Number

MA5-11789

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Mouse / IgM, kappa	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * Assay-dependent
Clone	MMA (LeuM1)	Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100
Immunogen	U937 histiocytic cell line	Published Applications	
Conjugate	Unconjugated	Immunocytochemistry (ICC/IF)	See 3 publications below
Form	Liquid	Immunohistochemistry (IHC)	See 6 publications below
Concentration	0.1 mg/mL	Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Purification	Ammonium sulfate precipitation	* 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.	
Storage buffer	PBS, pH 7.4, with 0.2% BSA		
Contains	0.09% sodium azide		
Storage Conditions	4° C		

Background/Target Information

CD15 (Lewis X, Le(x); stage specific embryonic antigen-1, SSEA-1) is a trisaccharide determinant (3-fucosyl-N-acetylglucosamine) expressed on several glycolipids, glycoproteins and proteoglycans of various cell types, e.g. granulocytes, mast cells, monocytes, macrophages, cells of gastric mucosa, nervous system or various tumour cells. There are several variants of Lewis x, such as sialyl-Lewis x or sulphated Lewis x. Cells with high surface expression of Le(x) antigen exhibit strong self-aggregation, based on calcium-dependent Le(x)-Le(x) interaction. This process is involved for example in embryo compaction or in autoaggregation of teratocarcinoma cells. Sialyl-Le(x) and its isomer sialyl-Le(a) are ligands of selectins. CD15 expression has been extensively used to confirm diagnosis of Hodgkin's disease.

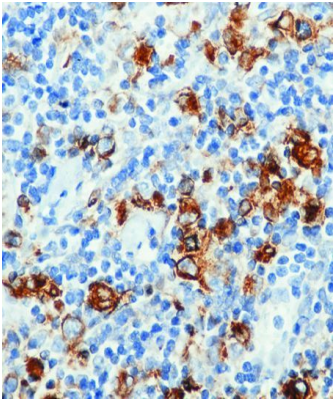
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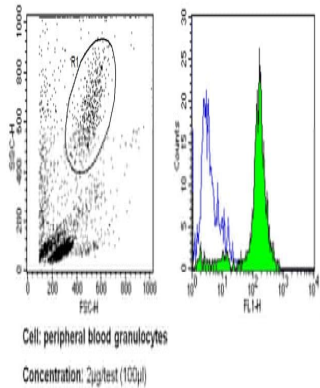
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Product Images For CD15 Monoclonal Antibody (MMA (LeuM1))



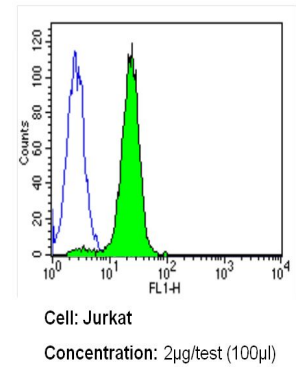
CD15 Antibody (MA5-11789) in IHC (P)

Formalin-fixed, paraffin-embedded human Hodgkin's lymphoma stained with FUT4 antibody using peroxidase-conjugate and DAB chromogen. Note membrane staining of Reed-Sternberg's cells.



CD15 Antibody (MA5-11789) in Flow

Flow cytometry analysis of FUT4 in blood granulocytes (green) compared to an isotype control (blue). Human blood was collected, combined with a hydrophilic polysaccharide, centrifuged, transferred to a conical tube and washed with PBS. 50 µL of cell solution was added to each tube at a dilution of 2×10^7 cells/mL, followed by the addition of 50 µL of isotype control and primary antibody (Product # MA5-11789) at a dilution of 2 µg/test. Cells were incubated for 30 min at 4°C and washed with a cell buffer, followed by incubation with a DyLight 488-conjugated secondary antibody for 30 min at 4°C in the dark. FACS analysis was performed using 400 µL of cell buffer.



CD15 Antibody (MA5-11789) in Flow

Flow cytometry analysis of FUT4 in Jurkat cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of $1-5 \times 10^6$ cells/mL, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a FUT4 monoclonal antibody (Product # MA5-11789) at a dilution of 2 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.

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PubMed References For CD15 Monoclonal Antibody (MMA (LeuM1))

3 Immunocytochemistry References

Species / Dilution	Summary
Human / 1:100	MA5-11789 was used in immunocytochemistry to investigate the derivation of cortical neurons from radial glia and neuron-restricted progenitors
	The Journal of neuroscience : the official journal of the Society for Neuroscience (2007; 27: 4132) "Human cortical neurons originate from radial glia and neuron-restricted progenitors." Author(s):Mo Z,Moore AR,Filipovic R,Ogawa Y,Kazuhiro I,Antic SD,Zececic N PubMed Article URL: http://dx.doi.org/10.1523/JNEUROSCI.0111-07.2007
Human / 1:100	MA5-11789 was used in immunocytochemistry to study inflammatory processes in cerebral lesions associated with tuberous sclerosis complex
	Epilepsy research (2008; 78: 7) "Inflammatory processes in cortical tubers and subependymal giant cell tumors of tuberous sclerosis complex." Author(s):Boer K,Jansen F,Nellist M,Redeker S,van den Ouweland AM,Spliet WG,van Nieuwenhuizen O,Troost D,Crino PB,Aronica E PubMed Article URL: http://dx.doi.org/10.1016/j.eplepsyres.2007.10.002
Human / 1:100	MA5-11789 was used in immunocytochemistry to study the sub-population of CD15-positive radial glial cells in the developing human lateral ganglionic eminence
	Current pharmaceutical biotechnology (2013; 14: 29) "Clonogenic CD15 immunoreactive radial glial cells from the developing human lateral ganglionic eminence." Author(s):Buttler D,Mai JK,Ashwell KW,Andressen C PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/23092258

6 Immunohistochemistry References

Species / Dilution	Summary
Human / Not Cited	MA5-11789 was used in immunohistochemistry to report on a case of metastasis to the breast from an adenocarcinoma of the lung
	Diagnostic pathology (2010; 5:) "Metastasis to the breast from an adenocarcinoma of the lung with extensive micropapillary component: a case report and review of the literature." Author(s):Maounis N,Chorti M,Legaki S,Ellina E,Emmanouilidou A,Demonakou M,Tsiafaki X PubMed Article URL: http://dx.doi.org/10.1186/1746-1596-5-82
Human / Not Cited	MA5-11789 was used in immunohistochemistry to report two clinical cases of biphasic malignant mesothelioma with osseous differentiation
	Lung cancer (Amsterdam, Netherlands) (2007; 57: 233) "Biphasic malignant mesothelioma cases with osseous differentiation and long survival: a review of the literature." Author(s):Demirag F,Unsal E,Tastepe I PubMed Article URL: http://dx.doi.org/10.1016/j.lungcan.2007.01.033
Human / Not Cited	MA5-11789 was used in immunohistochemistry to study three clinical cases of follicular dendritic cell sarcoma
	Human pathology (2012; 43: 209) "Folliculocentric B-cell-rich follicular dendritic cells sarcoma: a hitherto unreported morphological variant mimicking lymphoproliferative disorders." Author(s):Lorenzi L,Lonardi S,Petrilli G,Tanda F,Bella M,Laurino L,Rossi G,Facchetti F PubMed Article URL: http://dx.doi.org/10.1016/j.humpath.2011.02.029
Human / 1:100	MA5-11789 was used in immunohistochemistry to report a clinical case of T-cell non-Hodgkin lymphoma with unusual inflammatory breast carcinoma similarity
	Archives of gynecology and obstetrics (2009; 280: 149) "Secondary involvement of the breast in T-cell non-Hodgkin lymphoma, an unusual example mimicking inflammatory breast carcinoma." Author(s):Kelten C,Kabukcu S,Sen N,Teke Z,Yaren A,Erdem E,Duzcan E PubMed Article URL: http://dx.doi.org/10.1007/s00404-008-0869-z
Human / 1:100	MA5-11789 was used in immunohistochemistry to study the role of innate and adaptive immunity in epileptogenesis and spontaneous seizures
	Neurobiology of disease (2008; 29: 142) "Innate and adaptive immunity during epileptogenesis and spontaneous seizures: evidence from experimental models and human temporal lobe epilepsy." Author(s):Ravizza T,Gagliardi B,Noé F,Boer K,Aronica E,Vezzani A PubMed Article URL: http://dx.doi.org/10.1016/j.nbd.2007.08.012

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MA5-11789 was used in immunohistochemistry to report on a case of paratesticular clear cell carcinoma of the tunica vaginalis of the testis

Human / 1:25

Pathology international (2004; 54: 641)
"Clear cell adenocarcinoma of the tunica vaginalis of the testis with an adjacent uterus-like tissue."
Author(s):Tulunay O,Göğü C,Baltaci S,Bulut S
PubMed Article URL:<http://dx.doi.org/10.1111/j.1440-1827.2004.01675.x>

1 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
	MA5-11789 was used in immunohistochemistry - paraffin section to discuss factors that influence heat-induced antigen retrieval
Not Applicable / Not Cited	Pathology (2010; 42: 77) "Citraconic anhydride: a new antigen retrieval solution." Author(s):Leong AS,Haffajee Z PubMed Article URL: http://dx.doi.org/10.3109/00313020903434439

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