

CD4 Monoclonal Antibody (RIV6)

Catalog NumberMA1-7631

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Mouse / IgG2a	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Dilution *Assay-dependent
Clone	RIV6	Flow Cytometry (Flow)	Assay-dependent
Immunogen	Purified T cell fraction	Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent
Conjugate	Unconjugated	Immunoprecipitation (IP)	Assay-dependent
Form	Liquid	Published Applications	
Concentration	1.0 mg/mL	Immunohistochemistry (IHC)	See 4 publications below
Purification	Protein G	Immunocytochemistry (ICC/IF)	See 1 publications below
Storage buffer	PBS, pH 7.2	* 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	0.01% sodium azide		
Storage Conditions	4°C short term, -80°C long term		

Product specific information

MA1-7631 detects CD4 from human, rat and mouse samples. MA1-7631 has been successfully used in ELISA, flow cytometry, immunoprecipitation and immunohistochemistry procedures. The MA1-7631 immunogen is whole T cells. Store at 4°C for short term. For long term storage, store at -80°C.

Background/Target Information

The CD4 antigen is involved in the recognition of MHC class II molecules and is a co-receptor for HIV. CD4 is primarily expressed in a subset of T-lymphocytes, also referred to as T helper cells, but may also be expressed by other cells in the immune system, such as monocytes, macrophages, and dendritic cells. At the tissue level, CD4 expression may be detected in thymus, lymph nodes, tonsils, and spleen, and also in specific regions of the brain, gut, and other non-lymphoid tissues. CD4 functions to initiate or augment the early phase of T-cell activation through its association with the T-cell receptor complex and protein tyrosine kinase, Lck. It may also function as an important mediator of direct neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcripts have been identified in this gene [RefSeq, July 2017].

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PubMed References For CD4 Monoclonal Antibody (RIV6)

4 Immunohistochemistry References

Species / Dilution	Summary
Human / Not Cited	<p>MA1-7631 was used in immunohistochemistry to investigate the prognostic significance of intratumoral interleukin 17-producing cells in hepatocellular carcinoma</p> <p>Journal of hepatology (2009; 50: 980) "Increased intratumoral IL-17-producing cells correlate with poor survival in hepatocellular carcinoma patients." Author(s):Zhang JP,Yan J,Xu J,Pang XH,Chen MS,Li L,Wu C,Li SP,Zheng L PubMed Article URL:http://dx.doi.org/10.1016/j.jhep.2008.12.033</p>
Human / Not Cited	<p>MA1-7631 was used in immunohistochemistry to study the involvement of B cell-mediated immune responses in the pathogenesis of lupus tubulointerstitial inflammation</p> <p>Journal of immunology (Baltimore, Md. : 1950) (2011; 186: 1849) "In situ B cell-mediated immune responses and tubulointerstitial inflammation in human lupus nephritis." Author(s):Chang A,Henderson SG,Brandt D,Liu N,Gutikonda R,Hsieh C,Kaverina N,Utset TO,Meehan SM,Quigg RJ,Meffre E,Clark MR PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1001983</p>
Human / Not Cited	<p>MA1-7631 was used in immunohistochemistry to investigate the mechanism for the repopulation of B lymphocytes after rituximab treatment</p> <p>Arthritis and rheumatism (2007; 56: 1464) "BAFF-modulated repopulation of B lymphocytes in the blood and salivary glands of rituximab-treated patients with Sjögren's syndrome." Author(s):Pers JO,Devauchelle V,Daridon C,Bendaoud B,Le Berre R,Bordron A,Hutin P,Renaudineau Y,Dueymes M,Loisel S,Berthou C,Saraux A,Youinou P PubMed Article URL:http://dx.doi.org/10.1002/art.22603</p>
Human / 1:20	<p>MA1-7631 was used in immunohistochemistry to investigate the expression of specific genes in different types of lesions from patients with Tsutsugamushi disease</p> <p>The American Journal of dermatopathology (2009; 31: 551) "Histopathological features in both the eschar and erythematous lesions of Tsutsugamushi Disease: identification of CD30+ cell infiltration in Tsutsugamushi disease." Author(s):Lee JS,Park MY,Kim YJ,Kil HI,Choi YH,Kim YC PubMed Article URL:http://dx.doi.org/10.1097/DAD.0b013e31819d764d</p>

1 Immunocytochemistry References

Species / Dilution	Summary
Human / Not Cited	<p>MA1-7631 was used in immunocytochemistry to investigate the use of B-cell skin infiltrates in the diagnosis of Sjogren's syndrome.</p> <p>Journal of autoimmunity (2010; 35: 241) "Memory B-cell aggregates in skin biopsy are diagnostic for primary Sjögren's syndrome." Author(s):Roguedas AM,Pers JO,Lemasson G,Devauchelle V,Tobón GJ,Saraux A,Misery L,Youinou P PubMed Article URL:http://dx.doi.org/10.1016/j.jaut.2010.06.014</p>

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