

CD2 Monoclonal Antibody (OX-34), PE

Catalog NumberMA5-17489

Product data sheet

Details		Species Reactivity	
Size	200 µg	Species reactivity	Rat
Host/Isotope	Mouse / IgG2a	Published species	Rat
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	1.0 µg/1x10^6 cells
Clone	OX-34	Published Applications	
Immunogen	T blasts prepared in mixed lymphocyte reactions with purified rat T helper cells against irradiated spleen.	Flow Cytometry (Flow)	See 1 publications below
Conjugate	PE	* 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.	
Form	Liquid		
Concentration	0.1 mg/mL		
Purification	Protein G		
Storage buffer	PBS with 4-5mg/mL BSA		
Contains	0.02% sodium azide		
Storage Conditions	4° C, do not freeze		

Background/Target Information

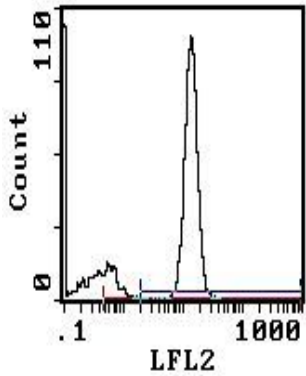
CD2 (LFA-2) is a monomeric surface antigen (MW range 45-58 kDa) of the human T-lymphocyte lineage that is expressed on all peripheral blood T cells. CD2 is one of the earliest T-cell markers, being present on more than 95% of thymocytes and it is also found on some natural killer cells, but not on B lymphocytes. Monoclonal antibodies directed against CD2 inhibit the formation of rosettes with sheep erythrocytes, indicating that CD2 is the erythrocyte receptor or is closely associated with it. The interaction between CD2 and CD58 stabilizes adhesion between T cells and antigen presenting or target cells. Relatively low affinity of CD2 to CD58 (as measured in solution) is compensated within the two-dimensional cell-cell interface to provide tight adhesion. Moreover, T cell activation induces increased CD2 expression and its lateral mobility, making easier contact between CD2 and CD58. Subsequently, T cell activation causes fixation of CD58-CD2 at sites of cell-cell contact, thereby strengthening intercellular adhesion. CD2 deficiency reduces intestinal inflammation and helps to control infection. Diseases associated with CD2 dysfunction include penis squamous cell carcinoma and immune deficiency due to the absence of the thymus.

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CD2 Antibody (MA5-17489) in Flow

Flow cytometric analysis of Lymph Node cells stained using anti-CD2/LFA-2 Monoclonal Antibody (Product # MA5-17488) at a 1.0 µg/10⁶ cells dilution. The Isotype control was a PE Mouse IgG2a

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PubMed References For CD2 Monoclonal Antibody (OX-34), PE

1 Flow Cytometry References

Species / Dilution	Summary
	MA5-17488 was used in Flow Cytometry to suggest that emodin attenuated HS formation and fibrosis by suppressing macrophage polarization, which is associated with the inhibition of the Notch and TGF- pathways in macrophages.
Rat / Not Cited	<p>Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas (2021; 54:)</p> <p>"Emodin alleviates hypertrophic scar formation by suppressing macrophage polarization and inhibiting the Notch and TGF- pathways in macrophages."</p> <p>Author(s):Xia Z,Wang J,Yang S,Liu C,Qin S,Li W,Cheng Y,Hu H,Qian J,Liu Y,Deng C</p> <p>PubMed Article URL:http://dx.doi.org/10.1590/1414-431X2021e11184</p>

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