

CD2 Monoclonal Antibody (RPA-2.10), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Baboon, Chimpanzee, Cynomolgus monkey, Human, Non-human primate, Pig, Rhesus monkey
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-2.10
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466314

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	3 Publications
Functional Assay (FN)	-	1 Publication

Product Specific Information

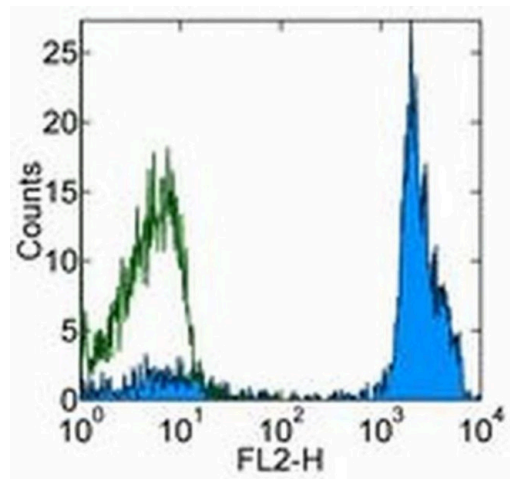
Description: The RPA-2.10 monoclonal antibody reacts with human CD2, a 50 kDa cell surface receptor expressed by a majority of thymocytes, all mature T cells and subset of NK cells. CD2 is a ligand for CD58 in the human and is involved in adhesion and activation of T cells. RPA-2.10 blocks mixed lymphocyte reaction.

RPA-2.10 crossreacts to non-human primates and pigs.

Applications Reported: The RPA-2.10 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The RPA-2.10 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.



CD2 Antibody (13-0029-82) in Flow

Staining of normal human peripheral blood cells with 0.125 µg of Mouse IgG1 kappa Isotype Control Biotin (Product # 13-4714-85) (open histogram) or 0.125 µg of Anti-Human CD2 Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

Immunohistochemistry (3)

<p>The Journal of experimental medicine</p> <p>Type I interferon induces CXCL13 to support ectopic germinal center formation.</p> <p>"13-0029-82 was used in Flow Cytometry, Immunohistochemistry to identify type I interferon as a novel inducer of CXCL13, which, in combination with other stimuli, can promote lung remodeling, converting a nonlymphoid tissue into one permissive to functional tertiary lymphoid structure formation."</p> <p>Authors: Denton AE,Innocentin S,Carr EJ,Bradford BM,Lafouresse F,Mabbott NA,Mörbe U,Ludewig B,Groom JR,Good-Jacobson KL,Linterman MA</p>	<p>Year 2019</p> <p>Species Mouse</p>
<p>Nature immunology</p> <p>Divergent expression patterns of IL-4 and IL-13 define unique functions in allergic immunity.</p> <p>"13-0029 was used in Immunohistochemistry to assess the temporal and spatial production of IL-4 and IL-13 in vivo."</p> <p>Authors: Liang HE,Reinhardt RL,Bando JK,Sullivan BM,Ho IC,Locksley RM</p>	<p>Year 2011</p> <p>Species Mouse</p>

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Immunohistochemistry (Frozen) (1)

<p>The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society</p> <p>A monoclonal antibody selection for immunohistochemical examination of lymphoid tissues from non-human primates.</p> <p>Authors: Kap YS,van Meurs M,van Driel N,Koopman G,Melief MJ,Brok HP,Laman JD,'t Hart BA</p>	<p>Year 2009</p>
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Flow Cytometry (3)

<p>The Journal of experimental medicine</p> <p>Type I interferon induces CXCL13 to support ectopic germinal center formation.</p> <p>"13-0029-82 was used in Flow Cytometry, Immunohistochemistry to identify type I interferon as a novel inducer of CXCL13, which, in combination with other stimuli, can promote lung remodeling, converting a nonlymphoid tissue into one permissive to functional tertiary lymphoid structure formation."</p> <p>Authors: Denton AE,Innocentin S,Carr EJ,Bradford BM,Lafouresse F,Mabbott NA,Mörbe U,Ludewig B,Groom JR,Good-Jacobson KL,Linterman MA</p>	<p>Year 2019</p> <p>Species Mouse</p>
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FN (1)

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