

CD45R (B220) Monoclonal Antibody (HIS24), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Rat
Published Species	Rat, Mouse
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIS24
Conjugate	FITC
Excitation/Emission Max	498/517 nm
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_465075

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	-
Immunocytochemistry (ICC/IF)	10 µg/mL	-
Flow Cytometry (Flow)	1 µg/test	8 Publications

Product Specific Information

Description: The HIS24 monoclonal antibody reacts with an isoform of CD45 expressed by rat B cells. The antigen recognized by HIS24 is found on B cells from the early stage of B cell development in the bone marrow to mature peripheral B cells, but not on plasma cells. HIS24 recognizes a 205 kDa protein by immunoblotting. CD45, also known as Leukocyte Common Antigen (LCA), has tyrosine phosphatase enzymatic activity in its cytoplasmic portion and plays an important role in activation of lymphocytes.

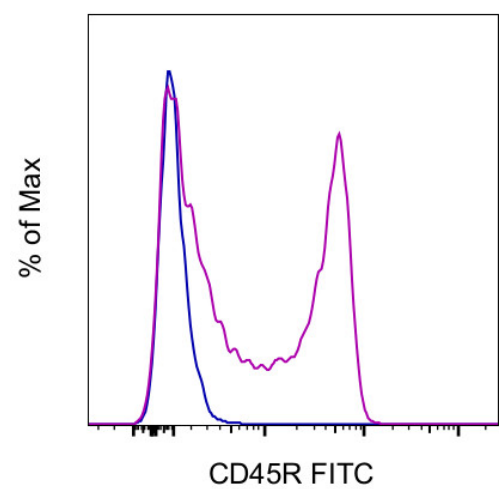
Applications Reported: This HIS24 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections.

Applications Tested: This HIS24 antibody has been tested by flow cytometric analysis of rat splenocytes. 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. This HIS24 antibody has been tested by immunohistochemistry of frozen rat tissue and can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

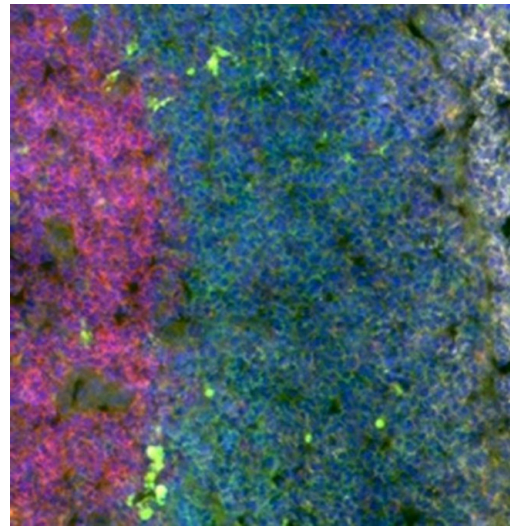
Excitation: 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD45R (B220) Monoclonal Antibody (HIS24), FITC, eBioscience™



CD45R (B220) Antibody (11-0460-82) in Flow
Wistar rat splenocytes were stained with 0.5 µg of Mouse IgG2b kappa Isotype Control, FITC (Product # 11-4732-82) (blue histogram) or 0.5 µg of CD45R Monoclonal Antibody, FITC (purple histogram). Total viable cells were used for analysis, as determined by Fixable Viability Dye eFluor 450 (Product # 65-0863-18).



CD45R (B220) Antibody (11-0460-82) in IHC (F)
Immunohistochemistry of frozen rat spleen using 10 µg/mL Anti-Rat CD45R (B220) FITC (green), 10 µg/mL Anti-Rat Marginal Zone B Cells eFluor 660 (white), and 10 µg/mL Anti-Rat CD3 Biotin followed by 1 µg/mL Streptavidin eFluor® 570 (red). Nuclei are stained with DAPI (blue).

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Immunohistochemistry (1)

Scientific reports	Year 2020
MHC/class-II-positive cells inhibit corticosterone of adrenal gland cells in experimental arthritis: a role for IL-1, IL-18, and the inflammasome.	
"Published figure using CD45R (B220) monoclonal antibody (Product # 11-0460-82) in Immunohistochemistry"	
Authors: Stangl H,Krammetsvogl A,Lesiak M,Wolff C,Straub RH	

Flow Cytometry (8)

Frontiers in immunology	Year 2021
Disruption of Tfh:B Cell Interactions Prevents Antibody-Mediated Rejection in a Kidney Transplant Model in Rats: Impact of Calcineurin Inhibitor Dose.	
"Published figure using CD45R (B220) monoclonal antibody (Product # 11-0460-82) in Flow Cytometry"	
Authors: Steines L,Poth H,Schuster A,Amann K,Banas B,Bergler T	

Cell death & disease	Year 2021
Genetic inactivation of RIP1 kinase activity in rats protects against ischemic brain injury.	
"Published figure using CD45R (B220) monoclonal antibody (Product # 11-0460-82) in Flow Cytometry"	
Authors: Stark K,Goncharov T,Varfolomeev E,Xie L,Ngu H,Peng I,Anderson KR,Verschueren E,Choi M,Kirkpatrick DS,Easton A,Webster JD,McKenzie BS,Vucic D,Bingol B	

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More applications with references on thermofisher.com

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