

CD19 Monoclonal Antibody (HIB19), eBioscience™

Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	HIB19
Conjugate	Unconjugated
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
RRID	AB_467151

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	1:100	3 Publications
Flow Cytometry (Flow)	1 µg/test	41 Publications
Functional Assay (FN)	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	2 Publications

Product Specific Information

Description: The HIB19 monoclonal antibody reacts with human CD19, a 95 kDa transmembrane glycoprotein. CD19 is expressed by B cells during all stages of development excluding the terminally differentiated plasma cells. Follicular dendritic cells also express CD19. Together CD21, CD81, Leu13, MHC class II, and CD19 form a multimolecular complex that associates with BCR. Signaling through CD19 induces tyrosine phosphorylation, calcium flux and proliferation of B cells. The SJ25C1 antibody and the HIB19 monoclonal antibody recognize overlapping epitopes.

Applications Reported: The HIB19 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections. It has also been reported in in vitro functional studies. (Please use Functional Grade Purified HIB19, cat. 16-0199, in functional assays. Fluorochrome-conjugated HIB19 is recommended for use in flow cytometry.).

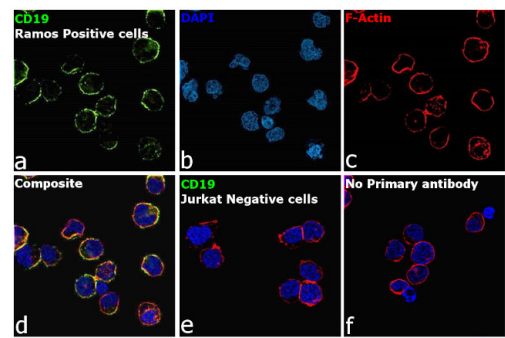
Applications Tested: This HIB19 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD19 Monoclonal Antibody (HIB19), eBioscience™

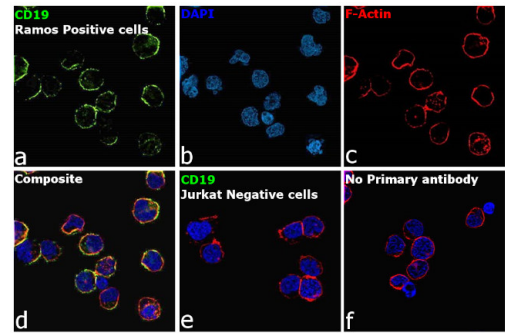


CD19 Antibody (14-0199-82)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-CD19 Monoclonal Antibody (HIB19), eBioscience™ (Product # 14-0199-82, 14-0199-80), shows was observed to be high in Ramos in comparison to low or negative in Jurkat. (doi : 10.18632/oncotarget.24902). {RE}

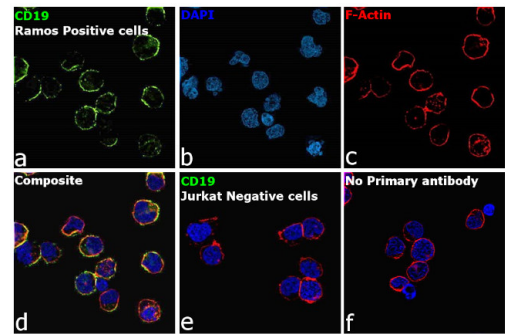
CD19 Antibody (14-0199-82) in ICC/IF

Immunofluorescence analysis of B-lymphocyte antigen CD19 was performed using 70% confluent log phase Ramos cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with CD19 Monoclonal Antibody (HIB19), eBioscience™ (Product # 14-0199-82, 14-0199-80) at 5 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing membrane localization. Panel e represents no expression of CD19 in Jurkat cells. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



CD19 Antibody (14-0199-82) in ICC/IF

Immunofluorescence analysis of B-lymphocyte antigen CD19 was performed using 70% confluent log phase Ramos cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with CD19 Monoclonal Antibody (HIB19), eBioscience™ (Product # 14-0199-80, 14-0199-82) at 5 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing membrane localization. Panel e represents no expression of CD19 in Jurkat cells. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



View more figures on thermofisher.com

Immunohistochemistry (2)

International journal of cancer Chimeric antigen receptor-engineered cytokine-induced killer cells overcome treatment resistance of pre-B-cell acute lymphoblastic leukemia and enhance survival. "14-0199 was used in Immunohistochemistry to demonstrate potent antileukemic activity of CAR-engineered CIK cells in vitro and in vivo, and suggest this strategy as a promising approach for adoptive immunotherapy of refractory pre-B-ALL." Authors: Oelsner S,Wagner J,Friede ME,Pfirschmann V,Genßler S,Rettinger E,Buchholz CJ,Pfeifer H,Schubert R, Ottmann OG,Ullrich E,Bader P,Wels WS	Year 2016 Species Human Dilution 1:100
PloS one Identification of markers that distinguish monocyte-derived fibrocytes from monocytes, macrophages, and fibroblasts. "14-0199 was used in Immunohistochemistry to identify markers that can be used to discriminate between human peripheral blood monocytes, tissue macrophages, fibrocytes, and fibroblasts." Authors: Pilling D,Fan T,Huang D,Kaul B,Gomer RH	Year 2009 Species Human

Immunocytochemistry (3)

Nature communications T cell-intrinsic role for Nod2 in protection against Th17-mediated uveitis. "14-0199-82 was used in Immunocytochemistry to reveal a non-conventional, T cell-intrinsic function for Nod2 in suppression of Th17 immunity and experimental uveitis." Authors: Napier RJ, Lee EJ, Davey MP, Vance EE, Furtado JM, Snow PE, Samson KA, Lashley SJ, Brown BR, Horai R, Mattapallil MJ, Xu B, Callegan MC, Uebelhoefer LS, Lancioni CL, Vehe RK, Binstadt BA, Smith JR, Caspi RR, Rosenzweig HL	Year 2020 Species Human Dilution 1:1000
PloS one A cell-based systems biology assessment of human blood to monitor immune responses after influenza vaccination. "14-0199 was used in Immunocytochemistry to monitor immune responses after influenza vaccination as part of a cell-based systems biology assessment of the blood of human subjects." Authors: Hoek KL, Samir P, Howard LM, Niu X, Prasad N, Galassie A, Liu Q, Allos TM, Floyd KA, Guo Y, Shyr Y, Levy SE, Joyce S, Edwards KM, Link AJ	Year 2015 Species Human

[View more ICC/IF references on thermofisher.com](#)

More applications with references on thermofisher.com

- Flow (41)
- Misc (2)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.