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.).

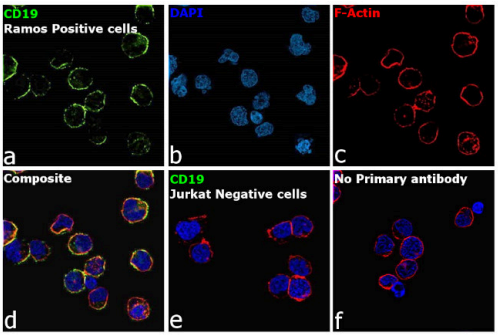
Applications Tested: This HIB19 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 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.

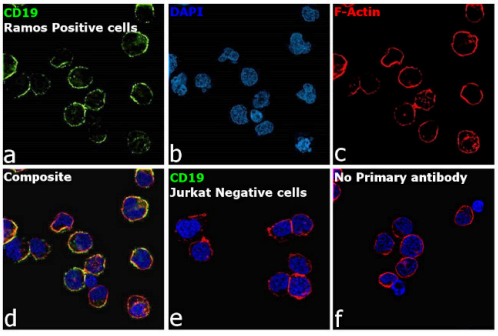
Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

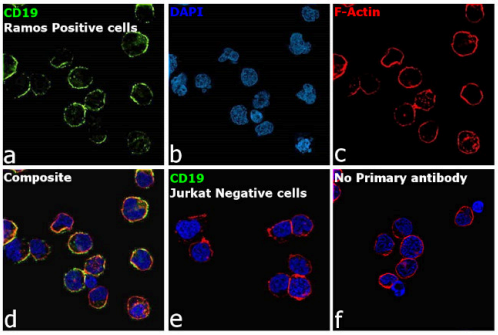
Product Images For CD19 Monoclonal Antibody (HIB19), eBioscience™



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.



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View more figures on thermofisher.com

48 References

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,Pfirrmann 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,Uebelhoer 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)**