ARG66321
anti-CD19 antibody [SQab1869]

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab1869] recognizes CD19
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Monoclonal
Clone	SQab1869
Isotype	IgG
Target Name	CD19
Species	Human
Immunogen	Synthetic peptide around the C-terminus of CD19.
Conjugation	Un-conjugated
Alternate Names	Differentiation antigen CD19; T-cell surface antigen Leu-12; B-lymphocyte antigen CD19; B-lymphocyte surface antigen B4; B4; CD antigen CD19; CVID3

Application Instructions

Application table

Application	Dilution
FACS	1:10
ICC/IF	1:10 - 1:50
IHC-P	1:200 - 1:400
IP	1:50
WB	1:2000 - 1:10000

Application Note: IHC-P: Antigen Retrieval: Heat mediated was performed using Tris/EDTA buffer pH 9.0.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

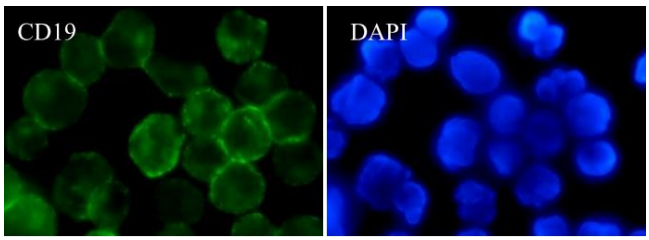
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

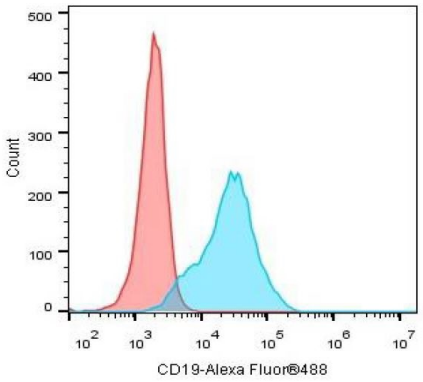
Gene Symbol	CD19
Gene Full Name	CD19 molecule
Background	CD19: Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. This gene encodes a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. [provided by RefSeq, Jul 2008]
Function	CD19 functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (PubMed:2463100, PubMed:1373518, PubMed:16672701). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:9382888, PubMed:9317126, PubMed:12387743, PubMed:16672701). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:9317126). Required for normal differentiation of B-1 cells. Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:2463100, PubMed:1373518). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:9317126, PubMed:12387743, PubMed:16672701). [UniProt]
Highlight	Related news: Cancer Pathology Markers (SQ clones); Tumor-Infiltrating Lymphocytes (TILs); MyD88 L265P antibody for lymphoma research; Related products: CD19 antibodies; CD19 ELISA Kits; CD19 Duos / Panels; Anti-Rabbit IgG secondary antibodies;
Research Area	Developmental Biology antibody; Immune System antibody; Lymphocyte Marker antibody; B cell Marker antibody; Pro-B Cell Marker antibody; Pre-B Cell Marker antibody; Immature B Cell Marker antibody; Follicular dendritic cells antibody
Calculated Mw	61 kDa
PTM	Phosphorylated on serine and threonine upon DNA damage, probably by ATM or ATR. Phosphorylated on tyrosine following B-cell activation. Phosphorylated on tyrosine residues by LYN. [UniProt]

Images



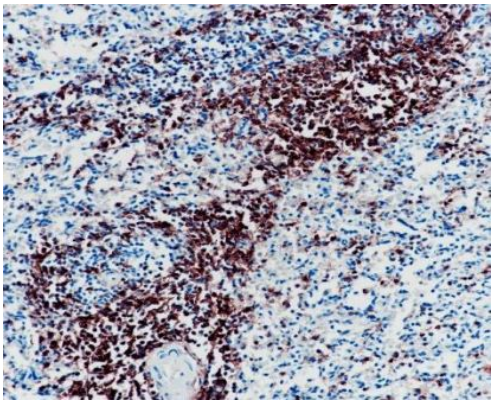
ARG66321 anti-CD19 antibody [SQab1869] ICC/IF image

Immunofluorescence: Raji cells were fixed with 4% paraformaldehyde for 30 min at RT, permeabilized with 0.1% Triton X-100 for 10 min at RT then blocked with 10% goat serum for 30 min at RT. Cells were stained with ARG66321 anti-CD19 antibody [SQab1869] (green) at 1:50 and 4°C. DAPI (blue) was used as the nuclear counter stain.



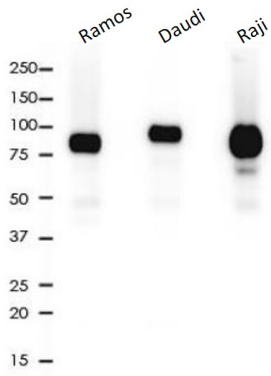
ARG66321 anti-CD19 antibody [SQab1869] FACS image

Flow Cytometry: Ramos cells were fixed with 4% paraformaldehyde for 10 mins. The cells were stained with ARG66321 anti-CD19 antibody [SQab1869] (blue) at 1:10 dilution in 1x PBS/1% BSA for 30 min at RT, followed by Alexa Fluor® 488 labelled secondary antibody. Unlabelled sample (red) was used as a control.



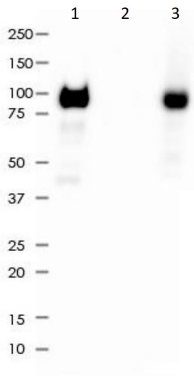
ARG66321 anti-CD19 antibody [SQab1869] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded spleen tissue stained with ARG66321 anti-CD19 antibody [SQab1869] at 1:400 dilution. Antigen Retrieval: Heat mediated was performed using Tris/EDTA buffer pH 9.0.



ARG66321 anti-CD19 antibody [SQab1869] WB image

Western blot: 10 µg of Ramos, Daudi and Raji cell lysates stained with ARG66321 anti-CD19 antibody [SQab1869] at 1:2000 dilution.



ARG66321 anti-CD19 antibody [SQab1869] IP image

Immunoprecipitation: 0.4 mg of Ramos lysate immunoprecipitated (1:50) and stained with ARG66321 anti-CD19 antibody [SQab1869]. 1) ARG66321 IP in Ramos whole cell lysate, 2) Rabbit IgG instead of ARG66321 in Ramos whole cell lysate, and 3) Ramos whole cell lysate, 10 µg (input).