ARG46779
anti-CD19 antibody

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

Summary

Product Description	Goat Polyclonal antibody recognizes CD19
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Specificity	Using spleen and Jurkat cell lysates detects a 95 kDa band by Western blot.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	CD19
Species	Human
Immunogen	Purified recombinant peptide within residues 510 aa to the C-terminus of human CD19 produced in E. coli.
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
IHC-P	1:250 - 1:1000
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 95 kDa

Properties

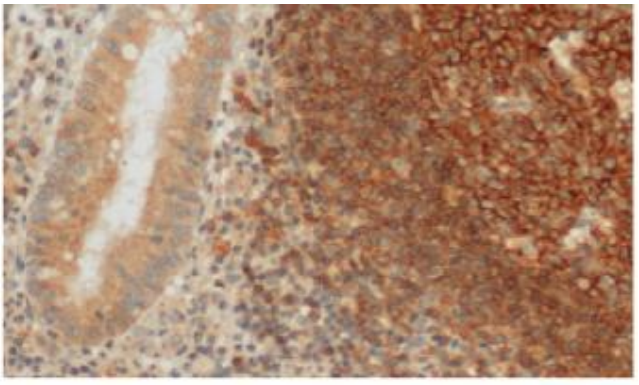
Form	Liquid
Purification	Epitope affinity purified
Buffer	PBS, 0.05% Sodium azide and 20% Glycerol.
Preservative	0.05% Sodium azide
Stabilizer	20% Glycerol
Concentration	3 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot 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

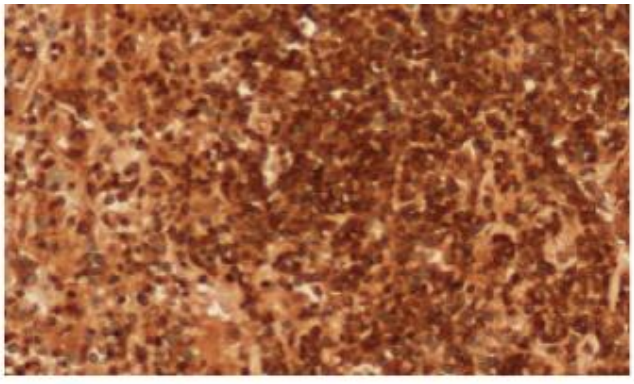
Gene Symbol	CD19
Gene Full Name	CD19 antigen
Background	CD19: Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity 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]
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.

Images



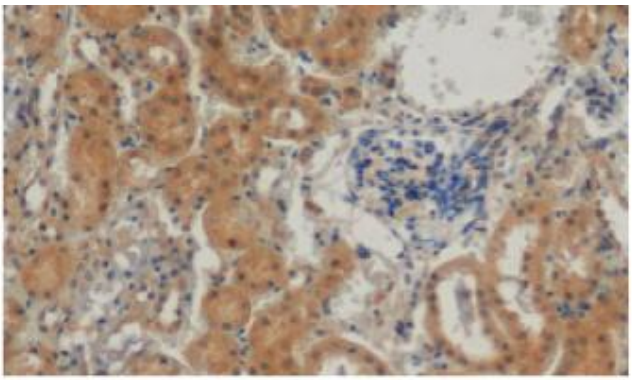
ARG46779 anti-CD19 antibody IHC-P image

Immunohistochemistry: Human appendix stained with ARG46779 anti-CD19 antibody at 1:750 dilution.



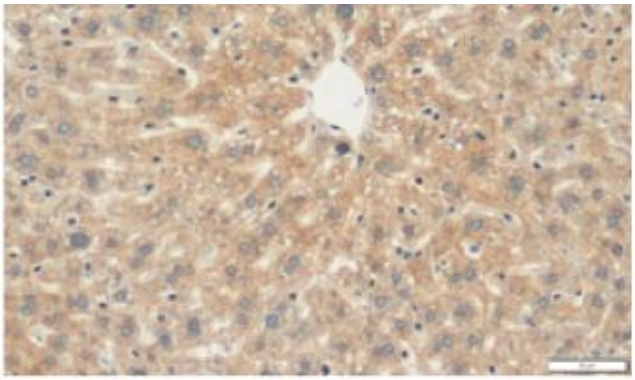
ARG46779 anti-CD19 antibody IHC-P image

Immunohistochemistry: Human lymph node stained with ARG46779 anti-CD19 antibody at 1:750 dilution.



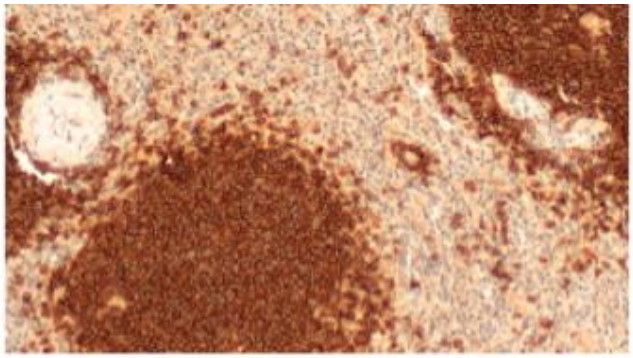
ARG46779 anti-CD19 antibody IHC-P image

Immunohistochemistry: Mouse kidney stained with ARG46779 anti-CD19 antibody at 1:750 dilution.



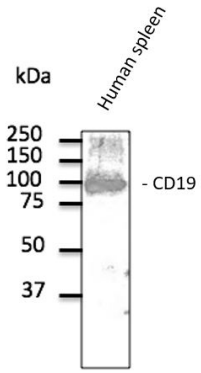
ARG46779 anti-CD19 antibody IHC-P image

Immunohistochemistry: Mouse liver stained with ARG46779 anti-CD19 antibody at 1:750 dilution.



ARG46779 anti-CD19 antibody IHC-P image

Immunohistochemistry: Mouse spleen stained with ARG46779 anti-CD19 antibody at 1:750 dilution.



ARG46779 anti-CD19 antibody WB image

Western blot: Mouse spleen stained with ARG46779 anti-CD19 antibody at 1:500 dilution.