

ARG22907 anti-CD21 antibody [LB21]

Package: 1 ml
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [LB21] recognizes CD21 Mouse anti Human CD21 antibody, clone LB21 recognizes the human Complement receptor type 2, also known as CD21 or the Epstein-Barr virus receptor. CD21 is a ~14 kDa cell surface glycoprotein expressed by mature B cells and by follicular dendritic cells. The molecule acts as a receptor for complement components C3d, C3dg and iC3b, as well as for Epstein Barr Virus. It forms part of a large signal transduction complex in association with CD19.
Tested Reactivity	Hu, Bov, Cat, Goat, Sheep
Tested Application	FACS, IHC-Fr, IP
Host	Mouse
Clonality	Monoclonal
Clone	LB21
Isotype	IgG1
Target Name	CD21
Species	Human
Immunogen	Human IM9 cell line.
Conjugation	Un-conjugated
Alternate Names	Cr2; Complement C3d receptor; C3DR; CD21; CD antigen CD21; Complement receptor type 2; SLEB9; CR; CVID7; Epstein-Barr virus receptor; EBV receptor

Application Instructions

Application table	Application	Dilution
	FACS	Neat - 1:10
	IHC-Fr	Assay-dependent
	IP	Assay-dependent

Application Note

IHC-Fr: The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Arigo recommends the use of acetone fixation for frozen sections.

FACS: Use 10 µl of the suggested working dilution to label 10⁶ cells or 100 µl human whole blood.

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

Properties

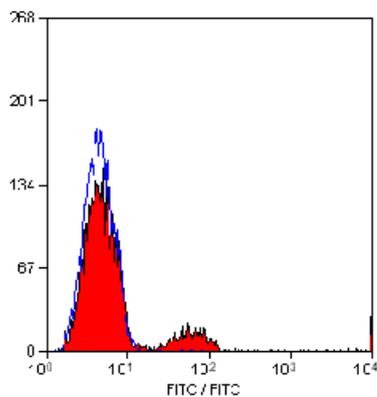
Form	Liquid
Purification	Purified by ion exchange chromatography.
Buffer	PBS, 0.09% Sodium azide and 1% BSA

Preservative	0.09% Sodium azide
Stabilizer	1% BSA
Concentration	25 µg/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 or below. 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

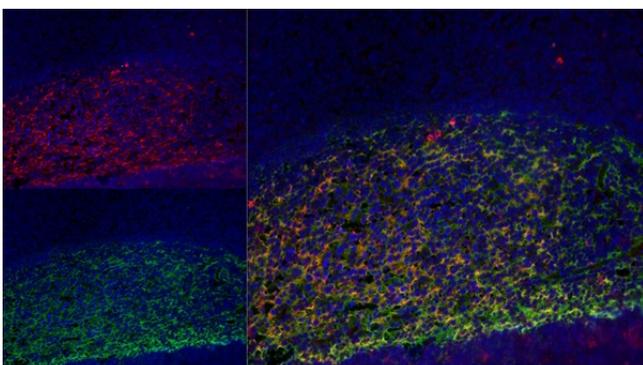
Gene Symbol	CR2
Gene Full Name	complement component (3d/Epstein Barr virus) receptor 2
Background	This gene encodes a membrane protein, which functions as a receptor for Epstein-Barr virus (EBV) binding on B and T lymphocytes. Genetic variations in this gene are associated with susceptibility to systemic lupus erythematosus type 9 (SLEB9). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]
Function	Receptor for complement C3Dd, for the Epstein-Barr virus on human B-cells and T-cells and for HNRPU. Participates in B lymphocytes activation. [UniProt]
Calculated Mw	113 kDa

Images



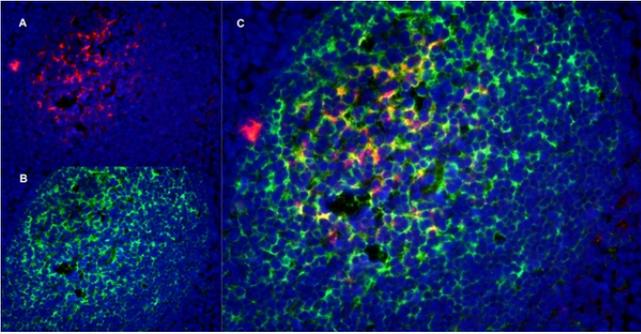
ARG22907 anti-CD21 antibody [LB21] FACS image

Flow Cytometry: Human peripheral blood lymphocytes stained with ARG22907 anti-CD21 antibody [LB21].



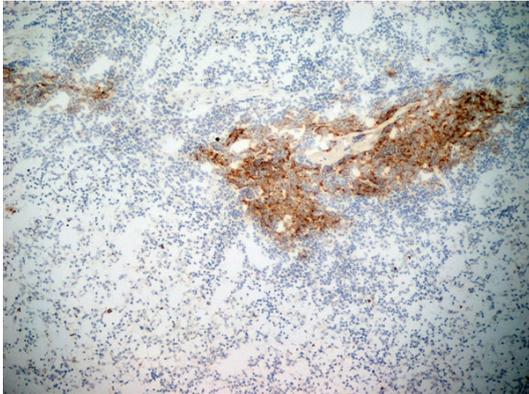
ARG22907 anti-CD21 antibody [LB21] IHC-Fr image

Immunohistochemistry: Human tonsil cryosection stained with Sheep anti Human LOX-1 antibody (red) and ARG22907 anti-CD21 antibody [LB21] (green). Nuclei are stained blue using DAPI. Merged image on right.



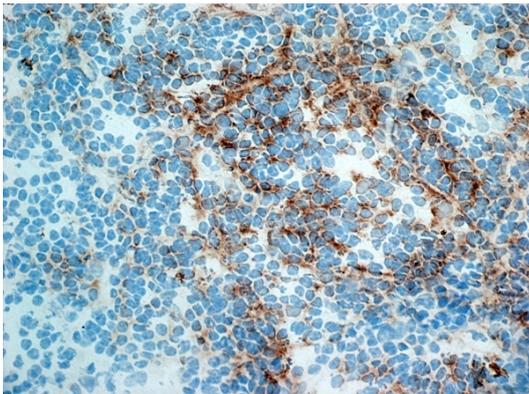
ARG22907 anti-CD21 antibody [LB21] IHC-Fr image

Immunohistochemistry: Human tonsil cryosection stained with Mouse anti Human CD1a antibody, red in A and ARG22907 anti-CD21 antibody [LB21], green in B. C is the merged image with nuclei counterstained blue using DAPI. (High power).



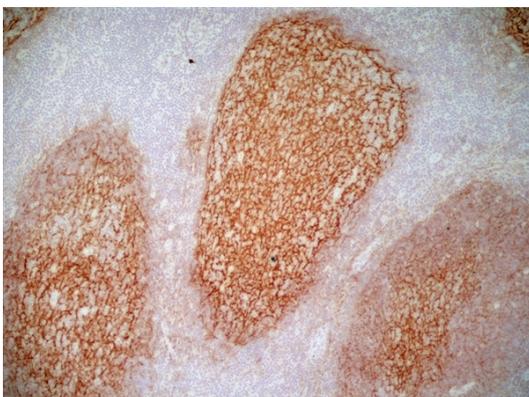
ARG22907 anti-CD21 antibody [LB21] IHC-Fr image

Immunohistochemistry: Human spleen cryosection stained with ARG22907 anti-CD21 antibody [LB21]. (Low power).



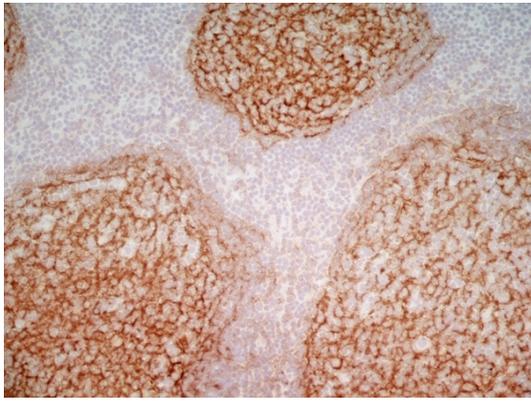
ARG22907 anti-CD21 antibody [LB21] IHC-Fr image

Immunohistochemistry: Human spleen cryosection stained with ARG22907 anti-CD21 antibody [LB21]. (High power).



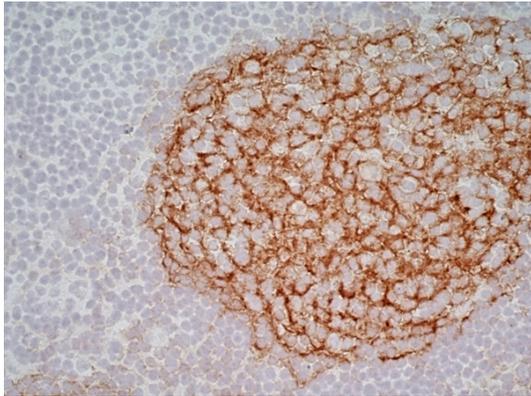
ARG22907 anti-CD21 antibody [LB21] IHC-Fr image

Immunohistochemistry: Human tonsil cryosection stained with ARG22907 anti-CD21 antibody [LB21]. (Medium power).



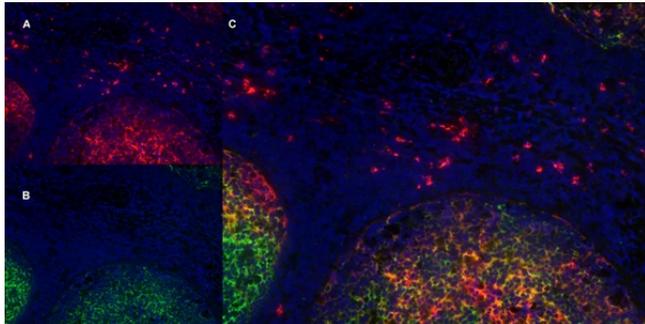
ARG22907 anti-CD21 antibody [LB21] IHC-Fr image

Immunohistochemistry: Human tonsil cryosection stained with ARG22907 anti-CD21 antibody [LB21]. (Medium power).



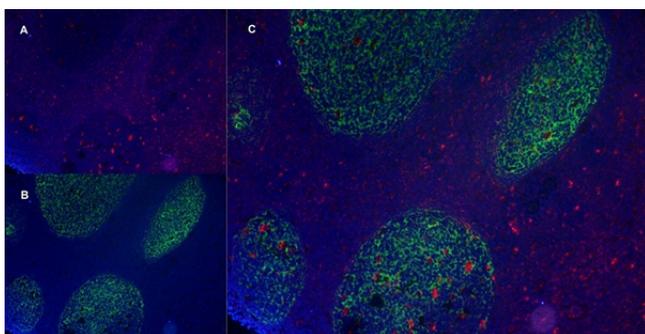
ARG22907 anti-CD21 antibody [LB21] IHC-Fr image

Immunohistochemistry: Human tonsil cryosection stained with ARG22907 anti-CD21 antibody [LB21]. (High power).



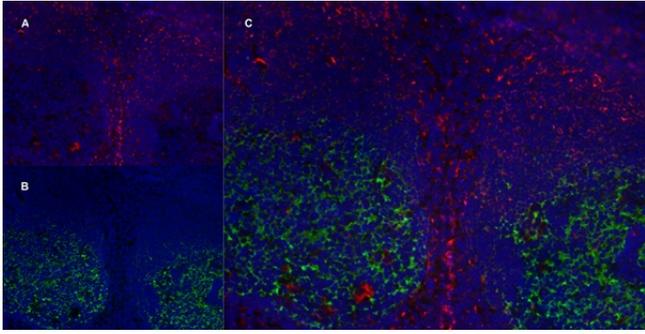
ARG22907 anti-CD21 antibody [LB21] IHC-Fr image

Immunohistochemistry: Human tonsil cryosection stained with Mouse anti Human CD11b antibody, clone ICRF44, red in A and ARG22907 anti-CD21 antibody [LB21], green in B. C is the merged image with nuclei counterstained blue using DAPI. (Medium power).



ARG22907 anti-CD21 antibody [LB21] IHC-Fr image

Immunohistochemistry: Human tonsil cryosection stained with Mouse anti Human CD83 antibody, clone HB15e, red in A and ARG22907 anti-CD21 antibody [LB21], green in B. The merged image is in C with nuclei counterstained blue using DAPI. (Low power).



ARG22907 anti-CD21 antibody [LB21] IHC-Fr image

Immunohistochemistry: Human tonsil cryosection stained with Mouse anti Human CD83 antibody, clone HB15e, red in A and ARG22907 anti-CD21 antibody [LB21], green in B. The merged image is in C with nuclei counterstained blue using DAPI. (High power).