

Alexa Fluor® 594 anti-human CD20

Catalog # / Size: 2514030 / 100 µg
2514025 / 25 µg

Clone: C20Mab-60

Isotype: Mouse IgG2a, κ

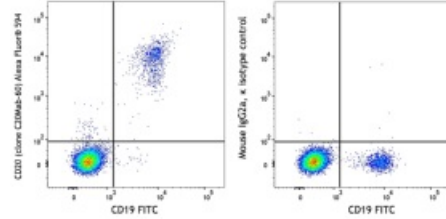
Immunogen: LN229/CD20 cells

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 594 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Concentration: 0.5



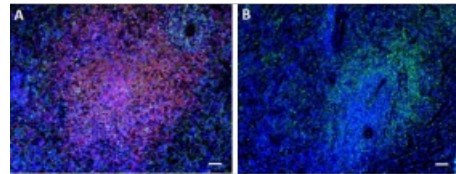
Human peripheral blood lymphocytes were stained with anti-human CD19 FITC and anti-human CD20 (clone C20Mab-60) Alexa Fluor® 594 (left), or mouse IgG2a, κ Alexa Fluor® 594 isotype control (right).

Applications:

Applications: Flow Cytometry, Immunohistochemistry-P

Recommended Usage: Each lot of this antibody is quality control tested by formalin-fixed paraffin-embedded immunohistochemical staining. For immunohistochemistry, a concentration range of 5.0 - 10.0 µg/mL is suggested. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 594 has an excitation maximum of 590 nm, and a maximum emission of 617 nm.



IHC staining of Alexa Fluor® 594 anti-human CD20 (clone C20Mab-60) on paraffin-embedded human spleen tissue. Following antigen retrieval using Tris-EDTA, pH 9.0, the tissue was incubated with 5 µg/mL of anti-human CD8a Alexa Fluor® 647 (green) and 10 µg/mL of anti-human CD20 (clone C20Mab-60) Alexa Fluor® 594 (red) (panel A) or mouse IgG2a, κ Alexa Fluor® 594 isotype control (red) (panel B) at 4°C overnight. The nuclei were counterstained with DAPI (blue) (Cat. No. 422801). The image was captured with a 10X objective. Scale bar: 50 µm

Description: CD20 is a 33-37 kD, four transmembrane spanning protein, also known as B1 and Bp35. CD20 is expressed on pre-B-cells, resting and activated B cells (not plasma cells), some follicular dendritic cells, and at low levels on a T cell subset. CD20 is heavily phosphorylated on activated B cells and malignant B cells. Homo-oligomeric complexes of CD20 are thought to form Ca²⁺ conductive ion channels in the plasma membrane of B cells. The CD20 molecule is involved in B-cell activation and is associated with various Src family kinases (Lyn, Lck, Fyn). It exists in a complex with MHC class I and II, CD53, CD81, and CD82.

Antigen References: 1. Furusawa Y, et al. 2020. *Monoclon Antib Immunodiagn Immunother.* 39:112-116.