

## Anti-Human CD20 Alexa Fluor® 488

**Catalog Number:** 53-0202

**Also known as:** B1, MS4A2, Leu-16

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

### Product Information

**Contents:** Anti-Human CD20 Alexa Fluor® 488



**Catalog Number:** 53-0202

**Clone:** L26

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Mouse IgG2a, kappa



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.



**Batch Code:** Refer to vial



**Use By:** Refer to vial

### Description

The monoclonal antibody L26 recognizes human CD20, a two transmembrane spanning protein found on precursor and mature B lymphocytes. Expression is lost upon differentiation to plasma cells. The levels of CD20 are critical in evaluating malignant B lymphocytes including Non-Hodgkin's Lymphoma, and Acute B cell, Chronic Lymphocytic and Hairy-Cell Leukemias. CD20 plays a role in B cell differentiation and activation. The structure of the protein shows a small extracellular loop with the carboxy and amino termini in the cytoplasmic compartment. The L26 antibody recognizes an epitope in the cytoplasmic domain and therefore requires permeabilization of the tissue for staining applications. Unlike many anti-CD20 antibodies that recognize the extracellular domain, the epitope recognized by L26 will not be blocked by therapeutic antibodies to CD20, like Rituximab.

### Applications Reported

This L26 antibody has been reported for use in immunohistochemical staining of frozen and paraffin-embedded tissue (IHC-F, IHC-P) and immunoprecipitation.

### Applications Tested

This L26 antibody has been tested by immunohistochemical staining of human FFPE tonsil with low pH antigen retrieval (cat. 00-4955) and can be used at less than or equal to 10 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

It has been reported that the L26 antibody when used without antigen retrieval will detect a subpopulation of CD20-positive cells. The L26 antibody can be used with high pH antigen retrieval, although the quality of the staining and cell morphology is not optimal. This product has been optimized for use in immunohistochemistry. We do not recommend its use in flow cytometry. For flow cytometry applications, please refer to clone 2H7, cat. 11-0209.

### References

Mason DY, Comans-Bitter WM, Cordell JL, Verhoeven MA, van Dongen JJ. Antibody L26 recognizes an intracellular epitope on the B-cell-associated CD20 antigen. *Am J Pathol.* 1990 Jun;136(6):1215-22. (**L26**, IHC-P)

Ishii Y, Takami T, Yuasa H, Takei T, Kikuchi K. Two distinct antigen systems in human B lymphocytes: identification of cell surface and intracellular antigens using monoclonal antibodies. *Clin Exp Immunol.* 1984 Oct;58(1):183-92. (**L26**, characterization)

### Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein

00-4954 20X TBS Wash Buffer for IHC/ICC

00-4955 IHC Antigen Retrieval Solution – Low pH (10X)

00-4958 Fluoromount-G™

53-4724 Mouse IgG2a K Isotype Control Alexa Fluor® 488

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[info@ebioscience.com](mailto:info@ebioscience.com)

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