Product datasheet

Anti-CD20 antibody [L26] ab9475

Overview

Product name: Anti-CD20 antibody [L26]
Description: Mouse monoclonal [L26] to CD20
Host species: Mouse
Tested applications: Suitable for: WB, IP, IHC-P, IHC-Fr, ICC/IF, Flow Cyt
Species reactivity: Reacts with: Human
Immunogen: Human tonsil B cells.
Positive control: Tonsil.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: L26
Isotype: IgG2a
Light chain type: kappa

Applications

Our Abpromise guarantee covers the use of ab9475 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>1/100 - 1/750. Predicted molecular weight: 33 kDa.</td>
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<tr>
<td>IP</td>
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<td>1/100 - 1/750.</td>
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</table>
This protein may be involved in the regulation of B-cell activation and proliferation.

Expressed on B-cells.

Defects in MS4A1 are the cause of immunodeficiency common variable type 5 (CVID5) [MIM:613495]; also called antibody deficiency due to CD20 defect. CVID5 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B cells is usually in the normal range, but can be low.

Belongs to the MS4A family.

Phosphorylated. Might be functionally regulated by protein kinase(s).

Membrane.

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Immunohistochemical analysis of paraffin embedded human tonsil tissue with ab9475 at 1 in 50 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD20 antibody [L26] (ab9475)
Human peripheral blood lymphocytes stained with ab9475 (red line). Human whole blood was processed using a modified protocol based on Chow et al, 2005 (PMD: 16080188). In brief, human whole blood was fixed in 4% formaldehyde (methanol-free) for 10 min at 22°C. Red blood cells were then lysed by the addition of Triton X-100 (final concentration - 0.1%) for 15 min at 37°C. For experimentation, cells were treated with 50% methanol (-20°C) for 15 min at 4°C. Cells were then incubated with the antibody (ab9475, 0.1μg/1x10⁶ cells) for 30 min at 4°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 4°C. Isotype control antibody (black line) was mouse IgG2a [IC1G2A] (ab91361, 0.1μg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >30,000 total events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. Gating strategy - peripheral blood lymphocytes.

ab9475 - immunohistochemistry

Formalin fixed paraffin embedded human tonsil stained with CD20, B cell using ABC and Fast Red chromagen.
CD20 associates with phosphorylated proteins after BCR stimulation. Ramos cells were unstimulated or stimulated with F(ab')2 anti-Igµ for the times and temperatures indicated. Cells were lysed in digitonin, and CD20 was immunoprecipitated from cleared lysates. Immunoprecipitates were probed using anti-phosphotyrosine (ptyr) (n = 4). The membranes were stripped and reprobed for CD20 using ab9475 (lower panel).

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