CD19 Antibody (N-term)
Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1494a

Speciﬁcation

CD19 Antibody (N-term) - Product Information

<table>
<thead>
<tr>
<th>Application</th>
<th>WB, IF, FC, IHC-P,E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Accession</td>
<td>P15391</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Human</td>
</tr>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Isotype</td>
<td>Rabbit Ig</td>
</tr>
<tr>
<td>Antigen Region</td>
<td>143-172</td>
</tr>
</tbody>
</table>

CD19 Antibody (N-term) - Additional Information

Gene ID 930

Other Names
B-lymphocyte antigen CD19, B-lymphocyte surface antigen B4, Differentiation antigen CD19, T-cell surface antigen Leu-12, CD19, CD19

Target/Speciﬁcity
This CD19 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 143-172 amino acids from the N-terminal region of human CD19.

Dilution

<table>
<thead>
<tr>
<th>WB</th>
<th>1:1000</th>
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</thead>
<tbody>
<tr>
<td>IF</td>
<td>1:10–50</td>
</tr>
<tr>
<td>FC</td>
<td>1:10–50</td>
</tr>
<tr>
<td>IHC-P</td>
<td>1:10–50</td>
</tr>
</tbody>
</table>

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is puriﬁed through a protein A column, followed by peptide afﬁnity puriﬁcation.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CD19 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CD19 Antibody (N-term) - Protein Information

Name CD19

Western blot analysis of lysate from Ramos cell line, using CD19 Antibody (N-term) (Cat. # AP1494a). AP1494a was diluted at 1:500. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

Western blot analysis of lysate from Raji cell line, using CD19 Antibody (N-term) (Cat. # AP1494a). CD19 Antibody (N-term) (Cat. # AP1494a) western blot analysis in Raji cell line lysates (35ug/lane). This demonstrates the CD19 antibody detected the CD19 protein (arrow).
Function
Assembles with the antigen receptor of B-lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.

Cellular Location
Membrane; Single-pass type I membrane protein

CD19 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

• Western Blot
• Blocking Peptides
• Dot Blot
• Immunohistochemistry
• Immunofluorescence
• Immunoprecipitation
• Flow Cytometry
• Cell Culture

Western blot analysis of CD19 (arrow) using rabbit polyclonal CD19 Antibody (N-term) (Cat.#AP1494a). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the CD19 gene (Lane 2) (Origene Technologies).

Immunofluorescence analysis of CD19 Antibody (N-term) with paraffin-embedded human lymph tissue. 0.05 mg/ml primary antibody was followed by FITC-conjugated goat anti-rabbit IgG (whole molecule). FITC emits green fluorescence. Red counterstaining is PI.
Flow cytometric analysis of CEM cells using CD19 Antibody (N-term) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Formalin-fixed and paraffin-embedded human lymph reacted with CD19 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

**CD19 Antibody (N-term) - Background**

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. CD19 is a cell surface molecule which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.

**CD19 Antibody (N-term) - References**

Bradbury,L.E., J. Immunol. 149 (9), 2841-2850
CD19 Antibody (N-term) - Citations

- Homing of human B cells to lymphoid organs and B-cell lymphoma engraftment are controlled by cell adhesion molecule JAM-C.