

### 30-1626: Anti-CD19 Monoclonal Antibody (Clone:1D3)-Low Endotoxin

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	1D3
<b>Application :</b>	FACS, IP, IHC-Fr, Functional Assay
<b>Reactivity :</b>	Mouse
<b>Gene :</b>	Cd19
<b>Gene ID :</b>	12478
<b>Uniprot ID :</b>	P25918
<b>Format :</b>	Low Endotoxin
<b>Alternative Name :</b>	Cd19
<b>Isotype :</b>	Rat IgG2a
<b>Immunogen Information :</b>	Mouse CD19-transfected cell line

#### Description

CD19 is a transmembrane glycoprotein of Ig superfamily expressed by B cells from the time of heavy chain rearrangement until plasma cell differentiation. It forms a tetrameric complex with CD21 (complement receptor type 2), CD81 (TAPA-1) and Leu13. Together with BCR (B cell antigen receptor), this complex signals to decrease B cell threshold for activation by the antigen. Besides being signal-amplifying coreceptor for BCR, CD19 can also signal independently of BCR coligation and it turns out to be a central regulatory component upon which multiple signaling pathways converge. Mutation of the CD19 gene results in hypogammaglobulinemia, whereas CD19 overexpression causes B cell hyperactivity.

#### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-G affinity chromatography
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

#### Application Note

**Flow Cytometry Immunoprecipitation Immunohistochemistry (frozen sections) Functional Application** This antibody can induce down-regulation of CD19, affecting the proportions of B cell subpopulations.