

# CD19 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1028a

## Product Information

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<b>Application</b>	WB, IHC, E
<b>Primary Accession</b>	<a href="#">P15391</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	2E2B6B10
<b>Isotype</b>	IgG2b
<b>Calculated MW</b>	61128
<b>Description</b>	The CD19 antigen (95kDa) is expressed from the earliest stage of B progenitor development, on all peripheral B cells including germinal centre B cells, and all B cell lines and B cell leukaemia tested. T cell and monocytic cell lines are negative and the antigen is lost on B cell maturation to plasma cells. The antigen is a type I integral membrane glycoprotein whose in vitro inhibition will influence B cell activation and proliferation.
<b>Immunogen</b>	Purified recombinant fragment of human CD19 expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS containing 0.03% sodium azide.

## Additional Information

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<b>Gene ID</b>	930
<b>Other Names</b>	B-lymphocyte antigen CD19, B-lymphocyte surface antigen B4, Differentiation antigen CD19, T-cell surface antigen Leu-12, CD19, CD19
<b>Dilution</b>	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~N/A
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	CD19 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CD19
<b>Function</b>	Functions as a coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes (PubMed: <a href="#">29523808</a> ). Decreases the threshold for activation of

downstream signaling pathways and for triggering B-cell responses to antigens (PubMed:[1373518](#), PubMed:[16672701](#), PubMed:[2463100](#)). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:[12387743](#), PubMed:[16672701](#), PubMed:[9317126](#), PubMed:[9382888](#)). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:[9317126](#)). Required for normal differentiation of B-1 cells (By similarity). Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:[1373518](#), PubMed:[2463100](#)). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:[12387743](#), PubMed:[16672701](#), PubMed:[9317126](#)).

#### Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft {ECO:0000250|UniProtKB:P25918}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P25918}

#### Tissue Location

Detected on marginal zone and germinal center B cells in lymph nodes (PubMed:[2463100](#)). Detected on blood B cells (at protein level) (PubMed:[16672701](#), PubMed:[2463100](#))

## References

1. Rie, M.A. de, J. of Immunol. Methods, 1987. 102: 187. 2. Rie, M.A. de, Leukaemia Research, 1988. 12: 135.

## Images

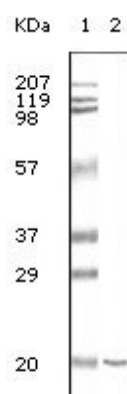


Figure 1: Western blot analysis using CD19 mouse mAb against CD19 recombinant protein.

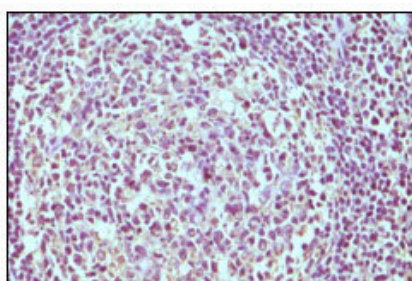


Figure 2: Immunohistochemical analysis of paraffin-embedded human normal lymph node, showing cytoplasmic localization using CD19 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.