

# Anti-CD19 Antibody (clone 3G7)

Mouse Anti Human Monoclonal Antibody  
Catalog # ALS17417

## Product Information

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<b>Application</b>	WB, IHC-P, IF, FC
<b>Primary Accession</b>	<a href="#">P15391</a>
<b>Predicted</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Clone Names</b>	3G7
<b>Calculated MW</b>	61128
<b>Concentration (mg/ml)</b>	1 mg/ml

## Additional Information

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<b>Gene ID</b>	930
<b>Alias Symbol</b>	CD19
<b>Other Names</b>	CD19, B-lymphocyte antigen CD19, CD19 molecule, Differentiation antigen CD19, T-cell surface antigen Leu-12, B4, CD19 antigen, CVID3
<b>Target/Specificity</b>	Human CD19
<b>Reconstitution &amp; Storage</b>	PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide Store at -20°C. Minimize freezing and thawing.
<b>Precautions</b>	Anti-CD19 Antibody (clone 3G7) 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: <a href="#">1373518</a> , PubMed: <a href="#">16672701</a> , PubMed: <a href="#">2463100</a> ). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca <sup>2+</sup> stores (PubMed: <a href="#">12387743</a> , PubMed: <a href="#">16672701</a> , PubMed: <a href="#">9317126</a> , PubMed: <a href="#">9382888</a> ). Is not required for early steps during B cell differentiation in the blood marrow (PubMed: <a href="#">9317126</a> ). Required for normal differentiation of B-1 cells (By similarity). Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed: <a href="#">1373518</a> , PubMed: <a href="#">2463100</a> ).

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)

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