

Anti-CD19 Antibody (clone 3G7)
Mouse Anti Human Monoclonal Antibody
Catalog # ALS17417**Specification**

Anti-CD19 Antibody (clone 3G7) - Product Information

Application	WB, IHC-P, IF, FC
Primary Accession	P15391
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	61128

Anti-CD19 Antibody (clone 3G7) - Additional Information**Gene ID 930**Alias Symbol **CD19****Other Names**

CD19, B-lymphocyte antigen CD19, CD19 molecule, Differentiation antigen CD19, T-cell surface antigen Leu-12, B4, CD19 antigen, CVID3

Target/Specificity

Human CD19

Reconstitution & Storage

PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide Store at -20°C. Minimize freezing and thawing.

Precautions

Anti-CD19 Antibody (clone 3G7) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-CD19 Antibody (clone 3G7) - Protein Information**Name CD19****Function**

Functions as a coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (PubMed: [2463100](http://www.uniprot.org/citations/2463100), PubMed: [1373518](http://www.uniprot.org/citations/1373518), PubMed: [16672701](http://www.uniprot.org/citations/16672701)). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed: [9382888](http://www.uniprot.org/citations/9382888), PubMed: [9317126](http://www.uniprot.org/citations/9317126), PubMed: [9317126](http://www.uniprot.org/citations/9317126)).

[12387743](http://www.uniprot.org/citations/12387743), PubMed: [16672701](http://www.uniprot.org/citations/16672701)). Is not required for early steps during B cell differentiation in the blood marrow (PubMed: [9317126](http://www.uniprot.org/citations/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: [2463100](http://www.uniprot.org/citations/2463100), PubMed: [1373518](http://www.uniprot.org/citations/1373518)). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed: [9317126](http://www.uniprot.org/citations/9317126), PubMed: [12387743](http://www.uniprot.org/citations/12387743), PubMed: [16672701](http://www.uniprot.org/citations/16672701)).

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:2463100, PubMed:16672701)

Anti-CD19 Antibody (clone 3G7) - 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](#)

Anti-CD19 Antibody (clone 3G7) - Images