

## Anti-CD19 Rabbit Monoclonal Antibody Catalog # ABO13504

### Specification

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#### Anti-CD19 Rabbit Monoclonal Antibody - Product Information

Application	WB, FC
Primary Accession	<a href="#">P15391</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

#### Description

Anti-CD19 Rabbit Monoclonal Antibody . Tested in WB, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

#### Anti-CD19 Rabbit Monoclonal Antibody - 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

#### Calculated MW

61128 MW KDa

#### Application Details

WB 1:500-1:1000<br>FC 1:50

#### Subcellular Localization

Membrane; Single-pass type I membrane protein.

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### Immunogen

A synthesized peptide derived from human CD19

#### Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

#### Anti-CD19 Rabbit Monoclonal Antibody - Protein Information

## Name CD19

### Function

Functions as a coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes (PubMed:<a href="http://www.uniprot.org/citations/29523808" target="\_blank">29523808</a>). Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (PubMed:<a href="http://www.uniprot.org/citations/1373518" target="\_blank">1373518</a>, PubMed:<a href="http://www.uniprot.org/citations/16672701" target="\_blank">16672701</a>, PubMed:<a href="http://www.uniprot.org/citations/2463100" target="\_blank">2463100</a>). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:<a href="http://www.uniprot.org/citations/12387743" target="\_blank">12387743</a>, PubMed:<a href="http://www.uniprot.org/citations/16672701" target="\_blank">16672701</a>, PubMed:<a href="http://www.uniprot.org/citations/9317126" target="\_blank">9317126</a>, PubMed:<a href="http://www.uniprot.org/citations/9382888" target="\_blank">9382888</a>). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:<a href="http://www.uniprot.org/citations/9317126" target="\_blank">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="http://www.uniprot.org/citations/1373518" target="\_blank">1373518</a>, PubMed:<a href="http://www.uniprot.org/citations/2463100" target="\_blank">2463100</a>). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:<a href="http://www.uniprot.org/citations/12387743" target="\_blank">12387743</a>, PubMed:<a href="http://www.uniprot.org/citations/16672701" target="\_blank">16672701</a>, PubMed:<a href="http://www.uniprot.org/citations/9317126" target="\_blank">9317126</a>).

### 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

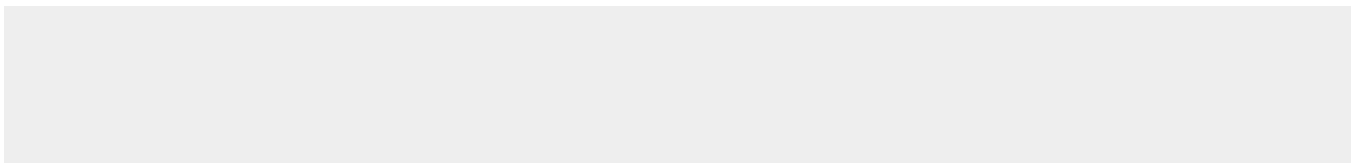
Detected on marginal zone and germinal center B cells in lymph nodes (PubMed:2463100). Detected on blood B cells (at protein level) (PubMed:16672701, PubMed:2463100)

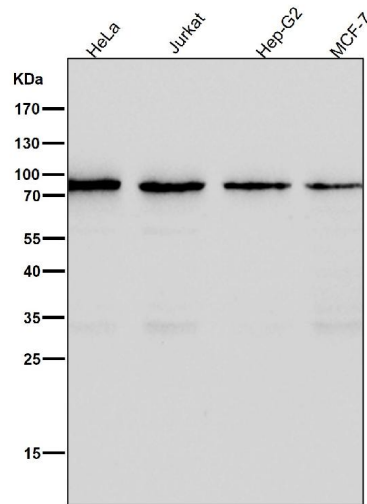
## Anti-CD19 Rabbit Monoclonal Antibody - Protocols

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

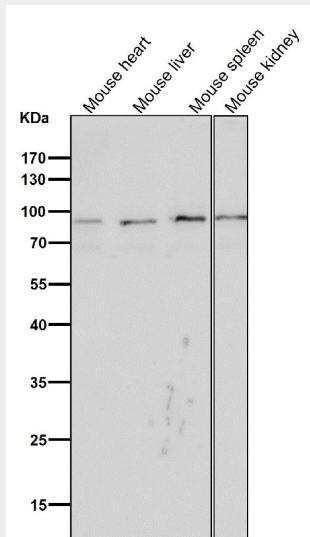
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-CD19 Rabbit Monoclonal Antibody - Images

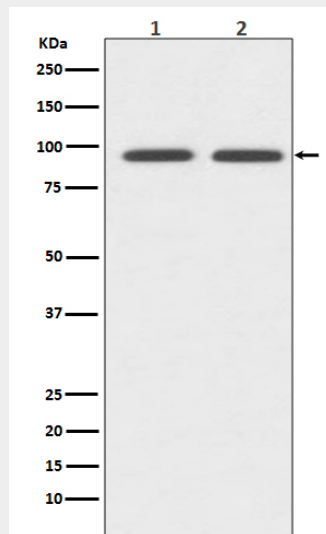




All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



Western blot analysis of CD19 expression in (1) Jurkat cell lysate; (2) Rat spleen lysate.