

Datasheet: VMA00030

Description:	MOUSE ANTI CD19
Specificity:	CD19
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Isotype:	IgG1
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Synthetic peptide corresponding to the C-terminal amino acids CGPDPAWGGGGRMGTWSTR of human CD19 coupled to KLH
External Database Links	<p>UniProt: P15391 Related reagents</p> <p>Entrez Gene: 930 CD19 Related reagents</p>

Specificity

Mouse anti Human CD19 antibody recognizes an epitope within the C-terminal cytoplasmic tail sequence of human CD19, a single pass type I transmembrane glycoprotein containing two [C2 type Ig-like domains](#) in the N-terminal extracellular region and four potential phosphorylation sites

for tyrosine together with a single serine in the cytoplasmic region.

Human CD19 is expressed on virtually all cells of the B-cell lineage with the exception of plasma cells and plays a regulatory role in B-cell differentiation and proliferation. B-cells are essential for antibody production and mutations in the CD19 gene can lead to an immunodeficiency syndrome, CIVD3 characterized by hypogammaglobulinemia leading to recurrent infections and the inability to mount an antibody mediated response to immune insult. Although immunoglobulin production is impaired, B-cell precursors appear in normal numbers together with some reduction in more mature B-cell forms ([van Zelm et al. 2006](#)). B-cells have also been implicated in the progression and pathogenesis of multiple sclerosis and are common circulatory components of both active and chronic MS lesions and well as in CSF ([Ritchie et al. 2004](#)).

Mouse anti Human CD19 antibody detects a band of ~95 kDa in Western blotting using a Raji B-cell lymphoma cell lysate under reducing conditions.

Western Blotting	Anti CD19 antibody detects a band of approximately 95 kDa in Raji cell lysates.
Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Guarantee	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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