

Datasheet: VMA00030KT

Description:	CD19 ANTIBODY WITH CONTROL LYSATE
Specificity:	CD19
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	IgG1
Quantity:	2 Westerns

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	20µl 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 CGDPAWGGGGRMGTWSTR of human CD19 coupled to KLH
External Database Links	UniProt: P15391 Related reagents

Entrez Gene:

[930](#) [CD19](#) [Related reagents](#)

Specificity	<p>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.</p> <p>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).</p> <p>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.</p>
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.
Lysate Composition	400µg Raji lysate lyophilized in RIPA buffer.
Lysate Reconstitution	<p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>
Storage	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>
Guarantee	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety	Material Safety Datasheet documentation #10040 #10561 available at:

Information Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.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 \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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