

Datasheet: MCA1388

Description:	RAT ANTI MOUSE CD45
Specificity:	CD45
Other names:	LCA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	IBL-3/16
Isotype:	IgG1
Quantity:	0.25 mg

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
Flow Cytometry	▪			1/50 - 1/100
Immunohistology - Frozen (1)	▪			1/50 - 1/100
Immunohistology - Paraffin		▪		
Immunohistology - Resin		▪		
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting		▪		
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species	Mouse
Species Cross Reactivity	Does not react with:Rat, Human, Chicken
Product Form	Purified IgG - liquid

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline.
Preservative	0.09% sodium azide (NaN ₃)
Stabilisers	1% bovine serum albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Purified B cells from mouse lymph nodes.
External Database Links	<p>UniProt: P06800 Related reagents</p> <p>Entrez Gene: 19264 Ptprc Related reagents</p>
Synonyms	Ly-5
RRID	AB_321729
Fusion Partners	Spleen cells from an immunized Wistar rat were fused with cells of the SP2/0-Ag14 mouse myeloma cell line
Specificity	<p>Rat anti Mouse CD45 antibody, clone IBL-3/16 recognizes murine Receptor-type tyrosine-protein phosphatase C, also known as CD45, Leukocyte common antigen, T200 or Lymphocyte antigen 5 (Ly5). CD45 is a 1291 amino acid ~175kDa single pass type I transmembrane glycoprotein belonging to the protein -tyrosing phosphatase family. CD45 has two fibronectin type-III domains and two tyrosine protein phosphatase domains (UniProt:: P06800).</p> <p>Multiple isoforms are generated by alternative splicing with isoforms having differing deletions in the N-terminal region (Saga et al. 1987). Rat anti Mouse CD45 antibody, clone IBL-3/16 is expected to recognize all isoforms of murine CD45.</p> <p>Rat anti Mouse CD45 antibody, clone IBL-3/16 has been used successfully for the identification of CD45 in murine samples using Immunohistochemical (both cryo and FFPE), immunofluorescence and western blotting techniques (Kondo et al. 2011, Cuadros et al. 2006).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 1. Clausen, B.H. <i>et al.</i> (2008) Interleukin-1beta and tumor necrosis factor-alpha are expressed by different subsets of microglia and macrophages after ischemic stroke in mice. J Neuroinflammation. 5: 46. 2. Laporte, V. <i>et al.</i> (2006) CD40 deficiency mitigates Alzheimer's disease pathology in

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Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550 , DyLight®650 , DyLight®800
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight®800

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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