# Datasheet: MCA1477PB BATCH NUMBER 157006

Description:	RAT ANTI HUMAN CD3:Pacific Blue®
Specificity:	CD3
Format:	Pacific Blue®
Product Type:	Monoclonal Antibody
Clone:	CD3-12
Isotype:	lgG1
Quantity:	100 TESTS/1ml

## **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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry (1)	•			1/5 - 1/10	
	Where this product has not been tested for use in a particular technique this does not					
	necessarily exclude its a guide only. It is recom system using appropria (1) <b>Membrane permeat</b> the use of Leucoperm	imended that te negative/ bilization is	at the user positive co <b>required</b>	r titrates the product for this application.		
Target Species	Human					
Species Cross Reactivity	Reacts with: Bovine, Dog, Horse, Rhesus Monkey, Pig, Chicken, Mouse, Duck, Koala, Harbour Porpoise, Alpaca, Cynomolgus monkey, Spotted Hyena, Sea Lion, Cat, Amazon Parrot, Raccoon, Great horned owl (Bubo virginianus), Bullfrog, Xenopus, Rabbit, African green monkey Based on sequence similarity, is expected to react with:Mammals, Birds, Amphibia <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.					
Product Form	Purified IgG conjugated to Pacific Blue - liquid					
Max Ex/Em	Fluorophore	Excitation N	lax (nm)	Emission Max (nm)		

	Pacific Blue® 410 455
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	Synthetic peptide sequence derived from cytoplasmic epitope of CD3 (Glu-Arg-Pro-Pro- Pro-Val-Pro-Asn-Pro-Asp-Tyr-Glu-Pro-Cys) (ERPPPVPNPDYEPC)
External Database Links	UniProt:         P07766       Related reagents         Entrez Gene:         916       CD3E       Related reagents
Synonyms	T3E
RRID	AB_10843429
Specificity	<b>Rat anti Human CD3, clone CD3-12</b> raised against a peptide representing an invariant cytoplasmic sequence within the CD3 $\epsilon$ chain recognizes human CD3 $\epsilon$ . CD3 is a multimeric protein complex composed of four distinct polypeptide chains ( $\epsilon$ , $\gamma$ , $\delta$ , $\zeta$ ) that assemble and function as three pairs of dimers ( $\epsilon\gamma$ , $\epsilon\delta$ , $\zeta\zeta$ ). The CD3 complex serves as a T cell co-receptor that associates non-covalently with the T cell receptor (TCR) (Malissen 2008; Guy and Vignali 2009; Smith-Garvin <i>et al.</i> 2009). CD3 is a defining feature of cells belonging to the T cell lineage and can therefore be used as T cell marker. As Rat anti Human CD3, clone CD3-12 has been specifically raised against an epitope within the epsilon peptide chain, highly conserved among species clone CD3-12 has a very broad species crossreactivity for the CD3 marker. (Jones <i>et al.</i> 1993; Kothlow <i>et al.</i> 2005).
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Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted.
	Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
	Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1477PB">https://www.bio-rad-antibodies.com/SDS/MCA1477PB</a>
Regulatory	For research purposes only

### **Related Products**

### **Recommended Negative Controls**

RAT IgG1 NEGATIVE CONTROL:Pacific Blue® (MCA6004PB)

#### **Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

#### Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M365359:200529'

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