

# Datasheet: MCA6122APC

Description:	MOUSE ANTI HUMAN CD158d:APC			
Specificity:	CD158d			
Other names:	KIR2DL4			
Format:	APC			
Product Type:	Monoclonal Antibody			
Clone:	mAb#33			
Isotype:	lgG1			
Quantity:	100 TESTS/1ml			

## **Product Details**

Applications	This product has been reported to work in the following applications. This information i 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	•		Neat			
	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 giver a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.						
Target Species	Human						
Product Form	Purified IgG conjugated to Allophycocyanin (APC) - liquid						
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)				
	APC	650	661				
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	<0.1% Sodium Azide (NaN <sub>3</sub> ) 0.2% Bovine Serum Albumin						
Immunogen	NK3.3 cells and KIR2DL4-Ig fusion protein						

External Database Links	UniProt:         Q99706       Related reagents         Entrez Gene:         3805       KIR2DL4         Related reagents					
Synonyms	CD158D, KIR103AS					
Specificity	<ul> <li>Mouse anti Human CD158d, clone mAb#33, recognizes the extracellular portion of CD158d also known as Killer Cell Immunoglobulin-like Receptor, 2 domains, long cytoplasmic tail, 4 (KIR2DL4). CD158d is a 45 kDa natural killer (NK) cell marker, although cell surface expression and function depends on the genotype of particular individuals. As some individual have no detectable CD158d on the surface of resting NK cells. In some individuals surface levels of CD158d can increase upon stimulation by IL-2 (Kikuchi-Maki et a. 2003). The killer cell Ig-like receptor protein regulates the responsiveness of NK cells upon their contact with tumor cells, virus infected cells, cytokines and chemokines.</li> <li>CD158d is constitutively expressed by NK cells and recognizes major histocompatibility complex (MHC) class I molecules on target cells. The non-classical MHC class I molecule HLA-G is the only known ligand of CD158d (Rahagioakab &amp; Long 1999).</li> <li>CD158d contains two Ig domains and a single tyrosine based inhibition motif in the cytoplasmic domain. It also contains a charged arginine near the top of the transmembrane region which helps regulate the signal for cytotoxicity and cytokine secretion when engaged at the cell surface. These two features give CD158d both inhibitory and activating characteristics (Fauve &amp; Long 2002).</li> <li>This mAb#33 clone has been used in flow cytometry to examine CD158d levels upon infection of human extravillous cytotrophoblast cells with <i>Toxoplasma gondii (Xu et al. 2013)</i>.</li> </ul>					
Purity	>95% by SDS PAGE					
Flow Cytometry	Use 10ul of the undiluted reagent to label 1x10 <sup>6</sup> cells in 100ul					
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.					
Guarantee	Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.					
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA6122APC 10041					
Regulatory	For research purposes only					

### **Related Products**

#### **Recommended Negative Controls**

MOUSE IgG1 NEGATIVE CONTROL: APC (MCA928APC)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M401919:220718'

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