

Datasheet: MCA6122

BATCH NUMBER 163813

Description:	MOUSE ANTI HUMAN CD158d
Specificity:	CD158d
Other names:	KIR2DL4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	mAb#33
Isotype:	IgG1
Quantity:	0.1 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	▪			Neat - 1/100
Immunoprecipitation	▪			
Western Blotting	▪			
Functional Assays	▪			
Immunocytochemistry	▪			

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.

Target Species	Human
Product Form	Purified IgG - liquid
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 ₃)

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	NK3.3 cells and KIR2DL4-Ig fusion protein
External Database Links	<p>UniProt: Q99706 Related reagents</p> <p>Entrez Gene: 3805 KIR2DL4 Related reagents</p>
Synonyms	CD158D, KIR103AS
Specificity	<p>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 al. 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. 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 & Long 1999).</p> <p>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 & Long 2002).</p> <p>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</i> (Xu et al. 2013).</p>
Purity	>95% by SDS PAGE
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6122 10040

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , 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
----------------------------------	---	------------------	---	---------------	---

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

'M401921:220718'

Printed on 18 Jan 2024