Mouse anti-Human CD158d Monoclonal Antibody | anti-CD158d antibody

Mouse Anti Human CD158d

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50381	**Mouse**	**Human**	**Western Blot, Immunoprecipitation, Immunocytochemistry, Functional Assay, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

CD158d; Monoclonal Antibody; Mouse Anti Human CD158d; CD158d antibody; mAb#33; anti-CD158d antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	mAb#33
Purity/Purification	>95% by SDS PAGE Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
Form/Format	Purified IgG - Liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	377
Applicable Applications for anti-CD158d antibody	WB (Western Blot), IP (Immunoprecipitation), ICC (Immunocytochemistry), FA (Functional Assay), FCM/FACS (Flow Cytometry)
Immunogen	NK3.3 cells and KIR2DL4-Ig fusion protein
Preservative Stabilizers	<0.1% Sodium Azide (NaN3)
Buffer Solution	Phosphate Buffered Saline
Preparation and Storage	Store at 4 degree C. DO NOT FREEZE. This product should be stored undiluted.

IMAGES

Application Data
Surface Staining of human peripheral blood using Mouse anti Human CD158d:RPE

Application Data
Surface Staining of human peripheral blood using Mouse anti Human CD158d:APC

ADDITIONAL INFORMATION

Related Product Information for anti-CD158d antibody	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. 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). 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). This mAb#33 clone has been used in flow cytometry to examine CD158d levels upon infection of human extravillous cytotrophoblast cells with Toxoplasma gondii (Xu et al. 2013).

NCBI AND UNIPROT INFORMATION

NCBI GI #	325511396
NCBI GeneID	3805
UniProt Accession #	Q99706
NCBI Official Full Name	Killer cell immunoglobulin-like receptor 2DL4
NCBI Official Synonym Full Names	killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 4
NCBI Official Symbol	KIR2DL4
NCBI Official Synonym Symbols	G9P; CD158D; KIR103; KIR-2DL4; KIR103AS; KIR-103AS
NCBI Protein Information	killer cell immunoglobulin-like receptor 2DL4
UniProt Protein Name	Killer cell immunoglobulin-like receptor 2DL4
UniProt Gene Name	**KIR2DL4**
UniProt Synonym Gene Names	CD158D; KIR103AS; KIR-103AS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/cd158d-antibody-clone-mab-33-western-blot-immunoprecipitation-immunocytochemistry-functional-assay-flow-cytometry-elisa/50381