

Spark PLUS UV395™ anti-human CD158 (KIR2DL1/S1/S3/S5) Antibody

Catalog# / Size	339524 / 25 tests
Clone	HP-MA4
Regulatory Status	RUO
Other Names	CD158a, CD158g, CD158h, KIR2DL1, KIR2DS1, KIR2DS3, KIR2DS5
Isotype	Mouse IgG2b, κ
Description	CD158 molecules, also known as KIRs (killer cell immunoglobulin-like receptors), are a family of transmembrane proteins with either two (KIR2D) or three (KIR3D) Ig-like extracellular domains. Some KIRs with long cytoplasmic domains contain ITIMs and possess inhibitory functions and others with short cytoplasmic region lack ITIM and have activation functions. 14 polymorphic KIR genes have been reported in humans. CD158 is mainly expressed on a subset of NK cells and a small population of CD8 ⁺ T cells. HLA-C is the ligand of CD158a/h.

Product Details

Verified Reactivity	Human
Reported Reactivity	Baboon, Cynomolgus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human NK cell clone LB2
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark PLUS UV395™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 nm)
Application Notes	mAb HP-MA4 reacts with KIR2DL1 (CD158a), KIR2DS1 (CD158h), KIR2DS3, and KIR2DS5 (CD158g). Additional reported applications include: inhibits NK cell mediated cytotoxicity and immunoprecipitation. This clone has been tested in-house and determined to not be suitable for applications in immunohistochemistry of paraffin-embedded tissue sections (IHC-P).

Application References

(PubMed link indicates
BioLegend citation)

1. De Miguel M and M. Lopez-Botet. 2002. *Inmunologia*. 21:187
2. Goodridge JP, et al. 2013. *J. Immunol.* 191:3553. [PubMed](#)

RRID

AB_3720559 (BioLegend Cat. No. 339524)

Antigen Details

Structure	Contains two Ig-like extracellular domains, 58/50 kD
Distribution	Subset of NK cells and a small subset of CD8+ T cells
Function	Inhibits NK cell function, play a role in self-tolerance.
Ligand/Receptor	HLA-C
Cell Type	NK cells, T cells
Biology Area	Immunology, Inhibitory Molecules
Molecular Family	CD Molecules
Antigen References	1. Zola H, et al. eds. 2007. <i>Leukocyte and Stromal Cell Molecules: The CD Markers</i> . Wiley-Liss A John Wiley & Sons Inc, Publication
Gene ID	3802 3810 3808 3806

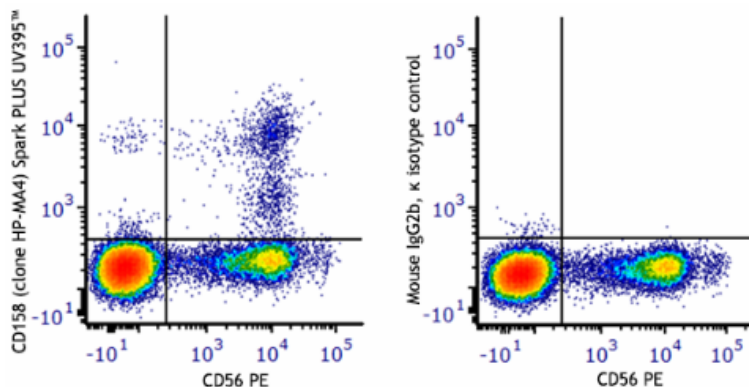
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

TotalSeq™-B0420 anti-human CD158 (KIR2DL1/S1/S3/S5) Antibody, PE/Cyanine7 anti-human CD158 (KIR2DL1/S1/S3/S5), PerCP/Cyanine5.5 anti-human CD158 (KIR2DL1/S1/S3/S5), APC anti-human CD158 (KIR2DL1/S1/S3/S5), FITC anti-human CD158 (KIR2DL1/S1/S3/S5), PE anti-human CD158 (KIR2DL1/S1/S3/S5), Purified anti-human CD158 (KIR2DL1/S1/S3/S5), TotalSeq™-D0420 anti-human CD158 (KIR2DL1/S1/S3/S5) Antibody, Spark PLUS UV395™ anti-human CD158 (KIR2DL1/S1/S3/S5), TotalSeq™-A0420 anti-human CD158 (KIR2DL1/S1/S3/S5), APC/Fire™ 750 anti-human CD158 (KIR2DL1/S1/S3/S5), TotalSeq™-C0420 anti-human CD158 (KIR2DL1/S1/S3/S5)

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone HCD56) PE and anti-human CD158 (KIR2DL1/S1/S3/S5) (clone HP-MA4) Spark PLUS UV395™ (left) or mouse IgG2b, κ Spark PLUS UV395™ isotype control (right).

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587