

Brilliant Violet 785™ anti-human CD112 (Nectin-2) Antibody

Catalog# / Size	337429 / 25 tests 337430 / 100 tests
Clone	TX31
Regulatory Status	RUO
Other Names	Poliovirus Receptor Related 2 Protein (PRR2), Nectin-2, Hve B
Isotype	Mouse IgG1, κ
Description	CD112, known as poliovirus receptor related 2 protein (PRR2), Nectin-2, or Hve B, is a type I transmembrane glycoprotein, a member of the Ig gene superfamily. It is primarily found on myelomonocytic cells, megakaryocytes, dendritic cells, mast cells, CD34 positive stem cells, endothelial cells, epithelial cells, and neuronal cells. CD112 functions as a receptor for α-herpes viruses HSV-1 and pseudorabies virus (PRV). CD112 is an adhesion molecule involved in the formation of cell junction and regulation of NK- and T cell-mediated cytotoxicity through interaction with CD226 (DNAM-1) and other nectin family molecules.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
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 Brilliant Violet 785™ 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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Brilliant Violet 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™. This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Excitation Laser	Violet Laser (405 nm)

Application Notes	Additional reported applications include: partially block CD226-Fc binding to CD112 transfectant cells and partially inhibit the cytotoxicity mediated by NK and T cells.
Application References	1. Tahara-Hanaoka S, <i>et al.</i>. 2004. <i>Int. Immunol.</i> 16:533 2. Lim O, <i>et al.</i> 2013. <i>PLoS One.</i> 8:e53611. PubMed 3. Gillory LA, 2013. <i>PLoS One.</i> 8:77753. PubMed
(PubMed link indicates BioLegend citation)	
RRID	AB_3720633 (BioLegend Cat. No. 337429) AB_3720633 (BioLegend Cat. No. 337430)

Antigen Details

Structure	Type I transmembrane glycoprotein, Ig superfamily
Distribution	Myelomonocytic cells, megakaryocytes, dendritic cells, mast cells, CD34-positive stem cells, endothelial cells, epithelial cells, and neuronal cells.
Function	Adhesion, receptor for some Herpes Viruses
Ligand/Receptor	CD226, CD155, Nectin-1, -3, and -4, Herpes Viruses
Cell Type	Dendritic cells, Endothelial cells, Epithelial cells, Hematopoietic stem and progenitors, Mast cells, Megakaryocytes
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroscience, Synaptic Biology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Zola H <i>et al.</i> Eds. 2007. <i>Leukocyte and Stromal Cell Molecules</i>:The CD Markers. Wiley-Liss A John Wiley & Sons Inc, Publication 2. Bachelet I, <i>et al.</i> 2006. <i>J. Bio. Chem.</i> 281:27190 3. Pende D, <i>et al.</i> 2006. <i>Blood</i> 107:2030 4. Bottino C, <i>et al.</i> 2003. <i>J. Exp. Med.</i> 198:557
Gene ID	5819

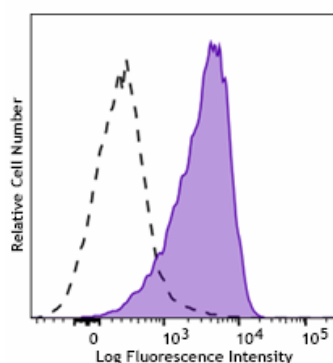
Related Protocols

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

Other Formats

TotalSeq™-B0024 anti-human CD112 (Nectin-2) Antibody, TotalSeq™-D0024 anti-human CD112 (Nectin-2), APC anti-human CD112 (Nectin-2), PE/Cyanine7 anti-human CD112 (Nectin-2), Purified anti-human CD112 (Nectin-2), Brilliant Violet 785™ anti-human CD112 (Nectin-2) Antibody, Spark PLUS B550™ anti-human CD112 (Nectin-2) (Flexi-Fluor™), PerCP/Cyanine5.5 anti-human CD112 (Nectin-2), TotalSeq™-C0024 anti-human CD112 (Nectin-2), Ultra-LEAF™ Purified anti-human CD112 (Nectin-2), PE anti-human CD112 (Nectin-2), Spark PLUS V475™ anti-human CD112 (Nectin-2) (Flexi-Fluor™), Spark PLUS UV395™ anti-human CD112 (Nectin-2) (Flexi-Fluor™), TotalSeq™-A0024 anti-human CD112 (Nectin-2)

Product Data



Human myeloid leukemia cell line, KG1a, was stained with human CD112 (Nectin-2) (clone TX31) Brilliant Violet 785™ (filled histogram) or mouse IgG1, κ Brilliant Violet 785™ isotype control (open histogram).

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