

TotalSeq™-C1026 anti-human CD229 (Ly-9) Antibody

| | |
|--------------------------|---|
| Catalog# / Size | 326113 / 10 µg |
| Clone | HLy-9.1.25 |
| Regulatory Status | RUO |
| Other Names | Ly9, Ly-9, SLAMF3 |
| Isotype | Mouse IgG1, κ |
| Barcode Sequence | ATAGAACCCCAACTTC |
| Description | CD229 is a 100-120 kD glycoprotein. It is a member of the SLAM family, a CD2 subset of the Ig superfamily, known as Ly9 or SLAMF3. CD229 is expressed on T cells, B cells, NK cells, and thymocytes. It functions as a homophilic adhesion molecule through binding to CD229 itself. The cytoplasmic tail of CD229 binds to SAP and Grb2 proteins. CD229 is involved in enhancing T cell activation and Th2 polarization. HLy9.1.25 antibody recognizes epitope A in the first Ig domain of Ly9 molecule. |

Product Details

| | |
|---------------------------------|--|
| Verified Reactivity | Human |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Immunogen | 300.19 cell line transfected with the CD229 full-length DNA |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA |
| Preparation | The antibody was purified by chromatography and conjugated with TotalSeq™-C oligomer under optimal conditions. |
| Concentration | 0.5 mg/mL |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze. |
| Application | PG - Quality tested |
| Recommended Usage | <p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-C antibodies are compatible with 10x Genomics Chromium Single Cell Immune Profiling Solution.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p> |
| Application Notes | Additional reported (for the relevant formats) applications include: immunoprecipitation ^{1,2} , and immunocytochemistry ³ . The Ultra-LEAF™ Purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 326109 & 326110). |
| Additional Product Notes | TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq . |

The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

Application References

(PubMed link indicates BioLegend citation)

1. de la Fuente MA, *et al.* 2001. *Blood* 97:3513.
2. Martin M, *et al.* 2005. *J. Immunol.* 174:5977.
3. Romero X, *et al.* 2005. *J. Immunol.* 174:7033.

RRID AB_2876630 (BioLegend Cat. No. 326113)

Antigen Details

| | |
|---------------------------|---|
| Structure | 100-120 kD glycoprotein, SLAM family, CD2 subset of Ig superfamily |
| Distribution | T cells, B cells, NK cells, thymocytes |
| Function | Homophilic adhesion, T cell activation, Th2 cell polarization |
| Ligand/Receptor | CD229 |
| Cell Type | B cells, NK cells, T cells, Thymocytes |
| Biology Area | Immunology |
| Molecular Family | Adhesion Molecules, CD Molecules |
| Antigen References | <ol style="list-style-type: none">1. Sandrin MS, <i>et al.</i> 1996. <i>Immunogenetics</i> 43:13.2. de la Fuente MA, <i>et al.</i> 2001. <i>Blood</i> 97:3513.3. Romero X, <i>et al.</i> 2005. <i>J. Immunol.</i> 174:7033. |
| Gene ID | 4063 |

Related Protocols

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

Other Formats

PE anti-human CD229 (Ly-9), Ultra-LEAF™ Purified anti-human CD229 (Ly-9), TotalSeq™-B1026 anti-human CD229 (Ly-9), TotalSeq™-C1026 anti-human CD229 (Ly-9)

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 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