

**Datasheet for 200-326-N70****CD45RA Allophycocyanin Antibody****Overview**

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-CD45RA (MOUSE) Allophycocyanin Conjugated Monoclonal Antibody - 200-326-N70 |
| <b>Item No.:</b>     | 200-326-N70                                                                      |
| <b>Size:</b>         | 500 µL                                                                           |
| <b>Applications:</b> | FC                                                                               |
| <b>Reactivity:</b>   | Human                                                                            |
| <b>Host Species:</b> | Mouse                                                                            |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | CD45RA is a 205-220 kD single chain type I glycoprotein. It is an exon 4 splice variant of the tyrosine phosphatase CD45. The CD45RA isoform is expressed on resting/naïve T cells, medullary thymocytes, B cells and monocytes. CD45RA enhances both T cell receptor and B cell receptor signaling. CD45 non-covalently associates with lymphocyte phosphatase-associated phosphoprotein (LPAP) on T and B lymphocytes. CD45 has been reported to be associated with several other cell surface antigens including CD1, CD2, CD3, and CD4. CD45 has also been reported to bind galectin-1. CD45 isoform expression can change in response to cytokines. |
| <b>Synonyms:</b>     | CD9 antigen, 5H9 antigen, Cell growth-inhibiting gene 2 protein, Leukocyte antigen MIC3, Motility-related protein, MRP-1, Tetraspanin-29, Tspan-29, p24, CD9, MIC3, TSPAN29, GIG2                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Host Species:</b> | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Conjugate:</b>    | Allophycocyanine (APC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Clonality:</b>    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clone ID:</b>     | HI100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Format:</b>       | IgG2b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>F/P Ratio:</b>    | 1-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Target Details**

|                    |       |
|--------------------|-------|
| <b>Gene Name:</b>  | CD9   |
| <b>Reactivity:</b> | Human |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Anti-CD45RA Antibody (Monoclonal) was produced by repeated immunizations with CD45RA antigen.                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity/Specificity:</b> | Allophycocyanin conjugated CD45RA Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against human CD45RA. Reactivity is observed against human CD45RA. Cross reactivity is observed with Chimpanzee. Reactivity with CD45RA from other sources has not been tested. Anti-CD45RA is conjugated with APC under optimal conditions and the solution is free of unconjugated APC. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P21926</a></li><li>• <a href="#">NCBI - NP_001760.1</a></li><li>• <a href="#">GeneID - 928</a></li></ul>                                                                                                                                                                                                                                                                 |

## Application Details

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|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | FC                                                                                                                                                                                 |
| <b>Application Note:</b>    | Anti-CD45RA is tested for Flow Cytometry and is useful in Immunohistochemistry and Western Blot. Researchers should determine optimal titers for applications that are not stated. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                    |
| <b>FC:</b>                  | 5 uL/test/1x10 <sup>5</sup> to 1x10 <sup>8</sup> cells                                                                                                                             |
| <b>IHC:</b>                 | User Optimized                                                                                                                                                                     |
| <b>WB:</b>                  | User Optimized                                                                                                                                                                     |

## Formulation

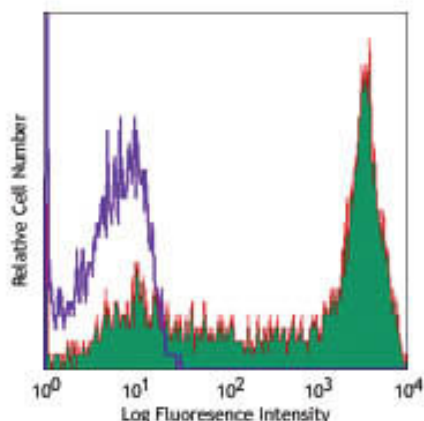
|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                                  |
| <b>Buffer:</b>         | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.09% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>     | 0.2% BSA (w/v)                                             |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Wet Ice                                                                                                                                                                                                                                                   |
| <b>Storage Condition:</b>  | Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE. |

**Expiration:** Expiration date is six (6) months from date of receipt.

## Images



### Flow Cytometry

Flow Cytometry of Mouse anti-CD45RA Allophycocyanin Conjugated Monoclonal Antibody. Cells: Human peripheral blood lymphocytes. Stimulation: none. Antibody: (Blue Line) PE Mouse IgG2b isotype control; (Green Shaded) Allophycocyanin Anti-CD45RA mouse antibody using 5  $\mu$ l.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.