

**Datasheet for 010-001-V52-0010****rMouse IL-13 Protein****Overview**

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| <b>Description:</b>  | Mouse Interleukin-13 Recombinant Protein - 010-001-V52-0010 |
| <b>Item No.:</b>     | 010-001-V52-0010                                            |
| <b>Size:</b>         | 10 µg                                                       |
| <b>Applications:</b> | SDS-PAGE                                                    |
| <b>Origin:</b>       | Mouse                                                       |
| <b>Expressed in:</b> | E. coli                                                     |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Background:</b>        | Interleukin-13 (IL-13) is an important cytokine secreted from Th2 cells. The functions attributed to IL-13 overlap significantly with those of IL-4 (induces IgE secretion from B cells and inhibits expression of inflammatory cytokines such as IL-1 $\beta$ , TNF- $\alpha$ , IL-8 and IL-6), but differs from IL-4 in that IL-13 seems to link inflammatory response of immune cells to the pathophysiological changes in the surrounding non-immune cells. The receptor subunits of IL-13 consist of IL-4R $\alpha$ , IL-13R $\alpha$ 1 and IL-13R $\alpha$ 2. Human and mouse IL-13 are cross-reactive. Recombinant mouse IL-13 is a non-glycosylated protein, containing 111 amino acids, with a molecular weight of 12.3 kDa. |
| <b>Synonyms:</b>          | NC30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species of Origin:</b> | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Expressed in:</b>      | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Type:</b>              | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Low Endotoxin:</b>     | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**Target Details**

|                            |                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name:</b>          | IL13                                                                                                                         |
| <b>Purity/Specificity:</b> | Interleukin-13 purity was determined to be greater than 95% as determined by analysis by reducing and non-reducing SDS-PAGE. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P20109</a></li></ul>                                         |

## Application Details

|                             |                                                                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | SDS-PAGE                                                                                                                                                                                                                             |
| <b>Application Note:</b>    | Interleukin-13 Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Interleukin-13 in immunological assays.                                                                |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                      |
| <b>Other:</b>               | Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by the dose dependent proliferation of TF-1 cells and is typically less than 4 ng/mL. |

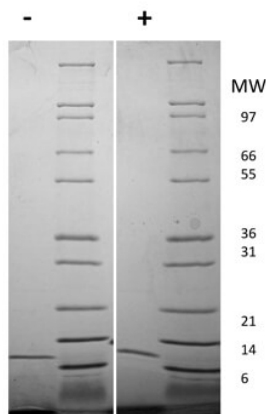
## Formulation

|                               |                                              |
|-------------------------------|----------------------------------------------|
| <b>Physical State:</b>        | Lyophilized                                  |
| <b>Concentration:</b>         | 0.1 mg/ml by UV absorbance at 280 nm         |
| <b>Buffer:</b>                | 0.1% Trifluoroacetic acid                    |
| <b>Preservative:</b>          | None                                         |
| <b>Stabilizer:</b>            | None                                         |
| <b>Reconstitution Volume:</b> | 100 $\mu$ L                                  |
| <b>Reconstitution Buffer:</b> | Restore with deionized water (or equivalent) |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Shipping Condition:</b> | Ambient                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | Store vial at $-20^{\circ}$ C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at $-20^{\circ}$ C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature. |
| <b>Expiration:</b>         | Expiration date is six (6) months from date of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Images

**SDS-PAGE**

SDS-PAGE of Mouse Interleukin-13 Recombinant Protein.

Lane 1: 1  $\mu$ g Mouse IL-13 in non-reducing conditions (-).

Lane 2: Molecular weight marker. Lane 3: 1  $\mu$ g Mouse IL-13 in reducing conditions (+). Lane 4: Molecular weight marker.

Mouse IL-13 is predicted to be a homodimer with a predicted MW of 12.2 kDa.

**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.