

Datasheet for 009-001-B49**IL-32A Human Recombinant Protein****Overview**

Description:	IL-32A Human Recombinant Protein - 009-001-B49
Item No.:	009-001-B49
Size:	10 µg
Applications:	SDS-PAGE
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Human IL-32 alpha is one of approximately 6 splice variants of a gene cloned from the human lung carcinoma stable transfectant, A549-Rbeta. IL-32 alpha has been shown to induce IL-8, TNF-a, and MIP-2 production from human & mouse macrophage cell lines. It is upregulated in activated T- & NK-cells, and IFN-g-treated epithelial cells. Human recombinant IL-32 alpha produced in E. coli is a 131 amino acid non -glycosylated polypeptide with a molecular mass of 14.9 kDa.
Synonyms:	Interleukin-32 alpha, IL-32a cytokine, Natural killer cells protein 4 alpha, Tumor necrosis factor alpha-inducing factor
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	IL32
Purity/Specificity:	Purity was determined to be greater than 97% as determined by reducing and non-reducing SDS- PAGE.
Relevant Links:	• NCBI • UniProtKB - P24001-4

Application Details

Tested Applications:	SDS-PAGE
Application Note:	IL-32A protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-IL-32A in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Biological Activity: Human IL-32 alpha activity is measured via the dose-dependent induction of TNF-alpha production from human PBMCs. The ED50 for this assay is in the range of 0.125-1.0ug/ml. Endotoxin Level: Measured by LAL is <0.01ng/μg or <0.1EU/μg.

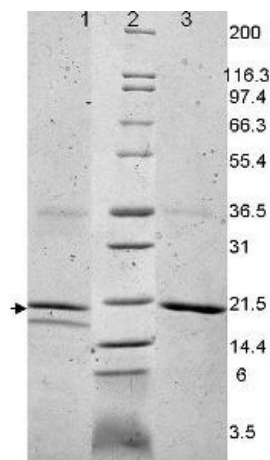
Formulation

Physical State:	Lyophilized
Concentration:	0.1 mg/mL by UV absorbance at 280 nm
Buffer:	0.05 M Potassium Phosphate, pH 7.8
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	10μl (10-100μl)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at -20° 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° 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.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

SDS-PAGE shows bands corresponding to IL-32A (1 μ g) in lane 1 (unreduced, arrowhead) and lane 3 (reduced). Molecular weight estimation was made by comparison to prestained MW markers, lane 2.

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.