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Datasheet for 202-401-B95S

IL-2 Antibody

Overview

Description:	Anti-Cat IL-2 (RABBIT) Antibody - 202-401-B95S
Item No.:	202-401-B95S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Cat
Host Species:	Rabbit

Product Details

Background:	IL-2 is a member of a family of cytokines, which also includes IL-4, IL-7, IL-9, IL-15 and IL-21. All members of this family signal through a receptor complex that includes the common gamma chain. IL-2 signals through a receptor complex consisting of IL-2 specific IL-2 receptor alpha (CD25), IL-2 receptor beta (CD122) and the common gamma chain. The main function of IL-2 is to promote the development of T regulatory cells. IL-2 is produced by several cell types including, B cells, gamma-delta T cells, CD4+ T cells, CD8+ T cells, and eosinophils. It has been found to be similar to IL-15 in terms of function. Both IL-2 and IL-15 are able to facilitate production of immunoglobulins made by B cells and induce the differentiation and proliferation of natural killer cells. The primary differences between IL-2 and IL-15 are found in adaptive immune responses: IL-2 participates in maintenance of T-Regs and reduces self-reactive T cells while IL-15 is necessary for maintaining highly specific T cell responses by supporting survival of CD8 memory T cells.
Synonyms:	rabbit anti-Interleukin-2 antibody, rabbit anti-IL-2 antibody, IL2, T-cell growth factor, TCGF, Aldesleukin, Lymphokine
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IL2
Reactivity:	Cat

Immunogen Type:	Recombinant Protein
Immunogen:	This protein A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein raised in yeast corresponding to 134 amino acids of mature cat IL-2.
Purity/Specificity:	This product was protein A purified from monospecific antiserum by chromatography. This antibody is specific for cat IL-2 protein. A BLAST analysis was used to suggest cross-reactivity with IL-2 from cat based on 100% homology; cross-reactivity with Northern elephant seal and gray seal based on 90% homology with the immunizing sequence. Cross-reactivity with IL-2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q07885 • NCBI - NP_001036802.1 • GeneID - 751114

Application Details

Tested Applications:	ELISA, WB
Application Note:	This protein A purified IL-2 antibody has been tested by ELISA and Western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 15.4 kDa in size corresponding to feline IL-2 by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000
WB:	1:500-1:2,000

Formulation

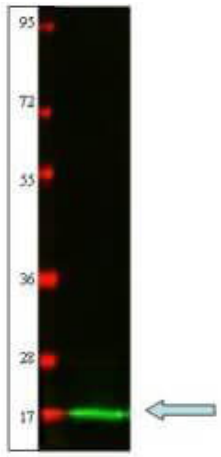
Physical State:	Liquid (sterile filtered)
Concentration:	1.15 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is three (3) months from date of receipt.

Images



Western Blot
Western blot using Rockland's protein-A purified anti-Cat IL-2 antibody shows detection of recombinant Cat IL-2 at 15.4 kDa, raised in yeast. Primary antibody was diluted to 1 µg/ml. 3% BSA from Rockland's p/n BSA-30 (Bovine Serum Albumin Solution) was used for blocking. Secondary antibody p/n 611-131-122 (Goat anti-Rabbit IgG IRDye® 800) was used at 1:20,000.

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.