

Datasheet for 100-401-A21**cKrox Antibody****Overview**

Description:	Anti-cKrox (RABBIT) Antibody - 100-401-A21
Item No.:	100-401-A21
Size:	100 µL
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Anti-cKrox (also known as Zfp67 or ThPOK) functions as a transcription regulator that acts as a key modulator of lineage commitment for immature T-cell precursors. cKrox is necessary and sufficient for commitment of CD4 lineage, while its absence causes CD8 commitment. Development of immature T-cell precursors (thymocytes) to either the CD4 helper or CD8 killer T-cell lineages correlates precisely with their T-cell receptor specificity for major histocompatibility complex class II or class I molecules, respectively. cKrox is a known transcriptional repressor of the collagen COL1A1 and COL1A2 genes and may also function as a repressor of fibronectin and possibly other extracellular matrix genes. cKrox is located within the nucleus and is expressed in multiple tissues and organs including skin, thymus and peripheral T-cells.
Synonyms:	rabbit anti-cKrox Antibody, ThPok antibody, Kruppel related zinc finger protein hKrox antibody, T-helper inducing POZ/Kruppel-like factor antibody, ZBTB 15 antibody, ZBTB 7B antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	c-KROX
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal sequence of mouse cKrox protein.
Purity/Specificity:	This antibody is directed against mouse cKrox. The product is delipidated and defibrinated antiserum. A BLAST analysis was used to suggest cross-reactivity with cKrox from mouse, human and rat based on a 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Relevant Links:	• UniProtKB - Q64321 • NCBI - NP_033591.2 • GenelD - 22724

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	This antibody has been tested for use in ELISA, immunohistochemistry, and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 80 kDa in size corresponding to cKrox by western blotting in the appropriate cell lysate or extract. Lysates from mouse thymocytes are recommended for use as positive controls.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,500 - 1:10,000
IHC:	1.25-2.5 µg/ml
WB:	1:500 - 1:3,000

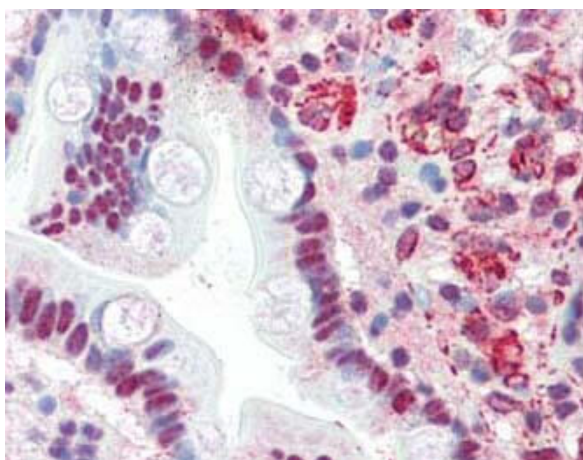
Formulation

Physical State:	Lyophilized
Concentration:	85 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of cKrox antibody. Tissue: human small intestine. Fixation: formalin fixed paraffin embedded. Antigen retrieval: user optimized. Primary antibody: 100-401-A21 cKrox at 1:100. Secondary antibody: Peroxidase goat anti-rabbit at 1:10,000 for 45 min at RT. Image provided courtesy of Andrew Elston, LifeSpan BioSciences, Inc.

Disclaimer

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