

Certificate of Analysis

Product: Anti-cKrox [Rabbit]

Code: 100-401-A21

Lot # 19305

Size: 100 µl

Physical State: Lyophilized

Format: Neat Antiserum

Protein Concentration: 85 mg/ml (by Refractometry)

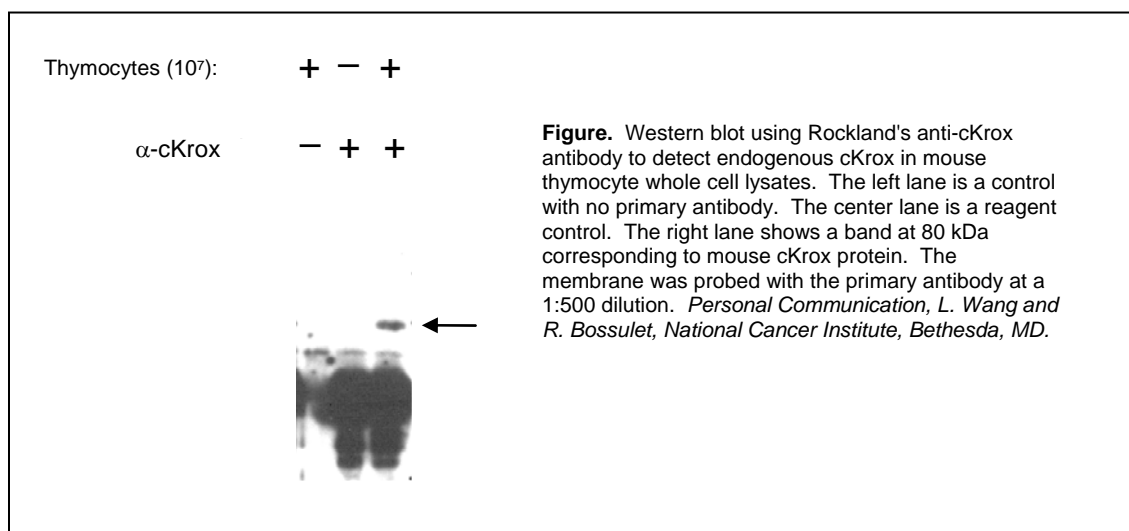
Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

Storage Conditions: Store vial at 4° C prior to opening. Reconstitute with 0.1 ml of deionized water. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening product.

Background Information: 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.



Application Note(s): This antibody has been tested for use in ELISA 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.

Recommended Dilutions:

ELISA	1:2,500 - 1:10,000
WESTERN BLOT	1:500 - 1:3,000
IMMUNOHISTOCHEMISTRY	User Optimized
OTHER APPLICATIONS	User Optimized

Purity and 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.

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.

Relevant Links:NCBI [Q64321](#)Swiss-Prot [Q64321](#)**Related Product(s):**

# 611-703-127	Peroxidase Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (DONKEY) MX10
# 611-132-122	IRDye® 800 Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (GOAT) MX10
# B501-0500	BLOTTO (500 g)
# BSA-30	30% BOVINE SERUM ALBUMIN SOL'N in 0.85% sodium chloride (no preservative or stabilizer) (500 ml)
# B304	NORMAL GOAT SERUM (NGS) (10 ml)
# KIA-003	MaxTag™ Anti-RABBIT IgG Kit for Immunoblotting
# MB-070	Blocking Buffer for Fluorescent Western Blotting

General References:

He X, He X, Dave VP, Zhang Y, Hua X, Nicolas E, Xu W, Roe BA and Kappes DJ (2005) The zinc finger transcription factor Th-POK regulates CD4 versus CD8 T-cell lineage commitment. *Nature* **433** (7028): 826-833.

Sun G, Liu X, Mercado P, Jenkinson SR, Kyriotou M, Feigenbaum L, Galera P, Bosselut R (2005) The zinc finger protein cKrox directs CD4 lineage differentiation during intrathymic T cell positive selection. *Nat. Immunol.* **4**: 373-381.

USDA Certification: 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.

Note: 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.