



Anti-cKrox (RABBIT) Antibody - 100-401-A21

Code: 100-401-A21

Size: 100 µL

Product Description: Anti-cKrox (RABBIT) Antibody - 100-401-A21

Concentration: 85 mg/mL by Refractometry

PhysicalState: Lyophilized

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|-------------------------------|--|
| Label | Unconjugated |
| Host | Rabbit |
| Gene Name | c-KROX |
| Species Reactivity | mouse, human, rat |
| Buffer | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Reconstitution Volume | 100 µL |
| Reconstitution Buffer | Restore with deionized water (or equivalent) |
| Stabilizer | None |
| Preservative | 0.01% (w/v) Sodium Azide |
| 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. |
| Synonyms | ThPok antibody, Kruppel related zinc finger protein hcKrox antibody, T-helper inducing POZ/Kruppel-like factor antibody, ZBTB 15 antibody, ZBTB 7B antibody |
| 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. |
| 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. |
| 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. |
| Assay Dilutions | User Optimized |
| ELISA | 1:2,500 - 1:10,000 |
| Immunohistochemistry | 1.25-2.5 µg/ml |
| WESTERN BLOT | 1:500 - 1:3,000 |
| IHC | 1.25-2.5 µg/ml |
| OTHER ASSAYS | User Optimized |
| Expiration | Expiration date is one (1) year from date of opening. |
| 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. |
| Related Products | |

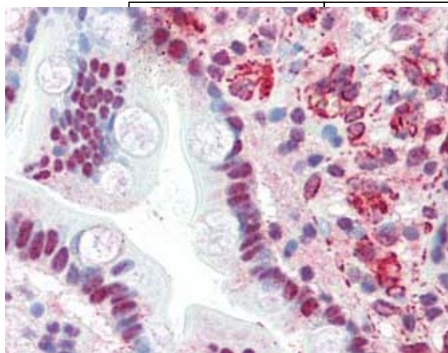
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|-------------|--|
| 000-001-486 | Btb1 CONTROL PEPTIDE - 000-001-486 |
| 600-401-486 | Anti-Btb1 [RABBIT] Antibody - 600-401-486 |
| 611-1302 | Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302 |
| K-500 | Antibody and Blocking Solution Starter PackK-500 |

Related Links

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| UniProtKB | http://www.uniprot.org/uniprot/Q64321 |
| NCBI | http://www.ncbi.nlm.nih.gov/protein/51316945?report=genpept |
| NCBI - Q64321 | http://www.ncbi.nlm.nih.gov/protein/51316945?report=genpept |
| UniProt - Q64321 | http://www.uniprot.org/uniprot/Q64321 |
| Gene ID - 22724 | http://www.ncbi.nlm.nih.gov/gene/22724 |

Images

- 100-401-A21 1:100 small intestineTissue Immunohistochemistry of HCKrox antibody Tissue: small intestineFixation: formalin fixed paraffin embedded Antigen retrieval: user optimizedPrimary antibody: 100-401-A21 1:100 Secondary antibody: Peroxidase goat anti-rabbit at 1:10,000 for 45 min at RTImage provided courtesy of Andrew Elston, LifeSpan BioSciences, Inc.



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.