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Datasheet for 600-401-A40

NCOA3 Antibody

Overview

Description:	Anti-NCOA3 (RABBIT) Antibody - 600-401-A40
Item No.:	600-401-A40
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human
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). The NCOA3 (also known as nuclear receptor coactivator 3 isoform a) is a nuclear receptor coactivator that interacts with nuclear hormone receptors to enhance their transcriptional activator functions in a hormone-dependent fashion. The encoded protein has histone acetyltransferase activity and recruits p300/CBP-associated factor and CREB binding protein as part of a multisubunit coactivation complex. NCOA3 probably acts via remodeling of chromatin and is involved in the coactivation of different nuclear receptors, such as for steroids (GR and ER), retinoids (RARs and RXRs), thyroid hormone (TRs), vitamin D3 (VDR) and prostanoids (PPARs). NCOA3 is also involved in the coactivation of the NF-kappa-B pathway via its interaction with the NFKB1 subunit. NCOA3 may be associated with diseases such as breast cancer and meningothelial meningioma. Anti-NCOA3 Antibody is useful for researchers interested in cancer research, chromatin binding, transcription coactivator activity, Immunology, and Nuclear Signaling research.
Synonyms:	rabbit anti-NCOA3 antibody, NCOA 3, NCOA-3, Nuclear receptor coactivator 3 NCoA-3, Thyroid hormone receptor activator molecule 1, TRAM-1, pCIP, bHLHe42, Receptor-associated coactivator 3, RAC-3, Amplified in breast cancer 1 protein, AIB-1, Steroid receptor coactivator protein 3, SRC-3, ACTR, AIB1, BHLHE42, RAC3, TRAM1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NCOA3
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of human NCOA3 isoform a protein.
Purity/Specificity:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with several isoforms of human NCOA3 protein (a, b, d, e and f). A BLAST analysis was used to suggest cross-reactivity with NCOA3 from human and macaque sources based on a 100% homology with the immunizing sequence. Expect partial reactivity with NCOA3 from dog, bovine, mouse and rat sources based on partial sequence homology. Cross-reactivity with NCOA3 from other sources has not been determined.
Relevant Links:	• NCBI - 32307126 • UniProtKB - Q9Y6Q9 • GeneID - 8202

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA, Immunohistochemistry, and western blotting. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:175,000
IHC:	5µg/mL
IP:	1:100
WB:	1:500 - 1:1,000

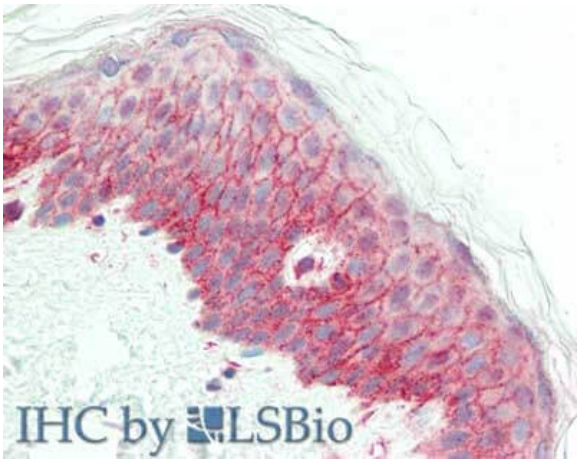
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.24 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

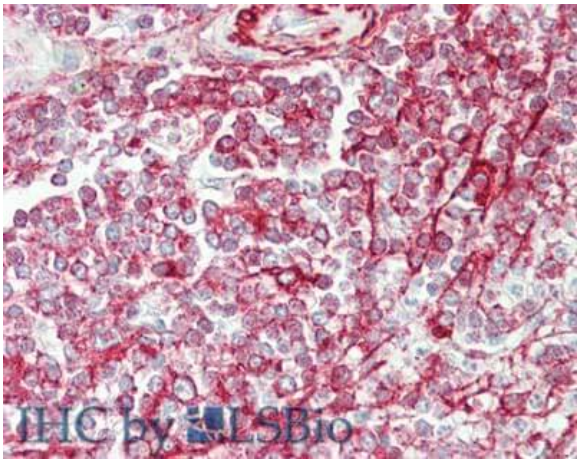
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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.

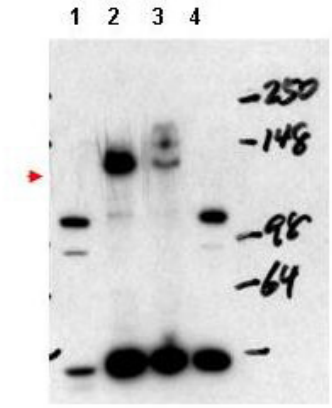
Images



Immunohistochemistry
Immunohistochemistry of rabbit anti-NCOA3 antibody. Tissue: skin spleen. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-NCOA3 at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: NCOA-3 as precipitated red signal with hematoxylin purple nuclear counterstain.



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Immunohistochemistry of rabbit anti-NCOA3 antibody. Tissue: skin spleen. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Anti-NCOA3 at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: NCOA-3 as precipitated red signal with hematoxylin purple nuclear counterstain.



Western Blot

Western blot using Rockland's affinity purified anti-NCOA3 antibody shows detection of NCOA3 in mouse liver nuclear extract (lane 1), transient transfected 293 cell lysate (lane 2), HeLa whole cell lysate (lane 3) and mouse thyroid cell nuclear extract (lane 4). The band at ~148 kDa, indicated by the arrowhead, corresponds to NCOA3. Mouse NCOA3 (lanes 1 and 4) appear as ~105 kDa bands. Pre-incubation of antibody with the immunizing peptide blocks detection of specific band staining (not shown). Personal communication, H. Ying, NCI, Bethesda, MD.

Disclaimer

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