

### NCOA3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP19843a

### Specification

# NCOA3 Antibody (N-term) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Antigen Region WB,E <u>O9Y6O9</u> <u>O9EPU2</u>, <u>NP\_001167559.1</u> Human Rat Rabbit Polyclonal Rabbit IgG 344-372

### NCOA3 Antibody (N-term) - Additional Information

### Gene ID 8202

### **Other Names**

Nuclear receptor coactivator 3, NCoA-3, ACTR, Amplified in breast cancer 1 protein, AIB-1, CBP-interacting protein, pCIP, Class E basic helix-loop-helix protein 42, bHLHe42, Receptor-associated coactivator 3, RAC-3, Steroid receptor coactivator protein 3, SRC-3, Thyroid hormone receptor activator molecule 1, TRAM-1, NCOA3, AIB1, BHLHE42, RAC3, TRAM1

### Target/Specificity

This NCOA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 344-372 amino acids from the N-terminal region of human NCOA3.

Dilution WB~~1:1000

### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

NCOA3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### NCOA3 Antibody (N-term) - Protein Information

### Name NCOA3



# Synonyms AIB1, BHLHE42, RAC3, TRAM1

**Function** Nuclear receptor coactivator that directly binds nuclear receptors and stimulates the transcriptional activities in a hormone- dependent fashion. Plays a central role in creating a multisubunit coactivator complex, which probably acts via remodeling of chromatin. 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). Displays histone acetyltransferase activity. Also involved in the coactivation of the NF-kappa-B pathway via its interaction with the NFKB1 subunit.

### **Cellular Location**

Cytoplasm. Nucleus. Note=Mainly cytoplasmic and weakly nuclear. Upon TNF activation and subsequent phosphorylation, it translocates from the cytoplasm to the nucleus

### **Tissue Location**

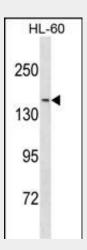
Widely expressed. High expression in heart, skeletal muscle, pancreas and placenta. Low expression in brain, and very low in lung, liver and kidney

## NCOA3 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

### NCOA3 Antibody (N-term) - Images



NCOA3 Antibody (N-term) (Cat. #AP19843a) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the NCOA3 antibody detected the NCOA3 protein (arrow).

### NCOA3 Antibody (N-term) - Background

The protein encoded by this gene is a nuclear receptor coactivator that interacts with nuclear hormone receptors to



enhance their transcriptional activator functions. The encoded protein has histone acetyltransferase activity and recruits p300/CBP-associated factor and CREB binding protein as part of a multisubunit coactivation complex. This protein is initially found in the cytoplasm but is translocated into the nucleus upon phosphorylation. Several transcript variants encoding different isoforms have been found for this gene. In addition, a polymorphic repeat region is found in the C-terminus of the encoded protein.

## NCOA3 Antibody (N-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Cai, D., et al. Cancer Res. 70(16):6477-6485(2010) Kovanen, L., et al. Alcohol Alcohol. 45(4):303-311(2010) Karmakar, S., et al. Mol. Endocrinol. 24(6):1187-1202(2010) Kleibl, Z., et al. J. Cancer Res. Clin. Oncol. (2010) In press :