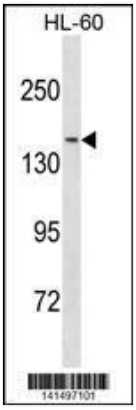
NCOA3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NCOA3, Polyclonal Antibody
Full Product Name	NCOA3, NT (NCOA3, AIB1, BHLHE42, RAC3, TRAM1, Nuclear receptor coactivator 3, ACTR, Amplified in breast cancer 1 protein, CBP-interacting protein, Class E basic helix-loop-helix protein 42, Receptor-associated coactivator 3, Steroid receptor coactivator p
Product Gene Name	anti-NCOA3 antibody
Product Synonym Names	Anti -NCOA3, NT (NCOA3, AIB1, BHLHE42, RAC3, TRAM1, Nuclear receptor coactivator 3, ACTR, Amplified in breast cancer 1 protein, CBP-interacting protein, Class E basic helix-loop-helix protein 42, Receptor-associated coactivator 3, Steroid receptor coactivator p
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Human
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	155,293 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (46130601..46285621). Location: 20q12
OMIM	601937
3D Structure	ModBase 3D Structure for Q9Y6Q9
Immunogen	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.
Product Categories/Family for anti-NCOA3 antibody	Antibodies; Abs to Cancer Markers
Applications Tested/Suitable for anti-NCOA3 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-NCOA3 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
Related Product Information for anti-NCOA3 antibody	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.

Other Notes	Small volumes of anti-NCOA3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NCOA3 purchase	MBS642400 is an antibody targeting NCOA3. Also known as NCOA3, NT (NCOA3, AIB1, BHLHE42, RAC3, TRAM1, Nuclear receptor coactivator 3, ACTR, Amplified in breast cancer 1 protein, CBP-interacting protein, Class E basic helix-loop-helix protein 42, Receptor-associated coactivator 3, Steroid receptor coactivator p. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NCOA3 antibody
NCOA3 Antibody (N-term) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the NCOA3 antibody detected the NCOA3 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NCOA3. It may not necessarily be applicable to this product.

NCBI GI #	32307124
NCBI GeneID	8202
NCBI Accession #	NP_006525.2
UniProt Primary Accession #	Q9Y6Q9
UniProt Secondary Accession #	Q0VF45; Q5JYD9; Q5JYE0; Q9BR49; Q9UPC9; Q9UPG4; Q9UPG7; A4LAZ5
UniProt Related Accession #	Q9Y6Q9
GenBank Nucleotide #	NM_006534.3
NCBI Official Full Name	nuclear receptor coactivator 3 isoform b
NCBI Official Synonym Full Names	nuclear receptor coactivator 3
NCBI Official Symbol	NCOA3
NCBI Official Synonym Symbols	ACTR; AIB1; RAC3; SRC3; pCIP; AIB-1; CTG26; SRC-3; CAGH16; KAT13B; TNRC14; TNRC16; TRAM-1; bHLHe42
UniProt Protein Name	Nuclear receptor coactivator 3
UniProt Synonym Protein Names	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
Protein Family	Nuclear receptor coactivator
UniProt Gene Name	NCOA3
UniProt Synonym Gene Names	AIB1; BHLHE42; RAC3; TRAM1; NCoA-3; AIB-1; pCIP; bHLHe42; RAC-3; SRC-3; TRAM-1
UniProt Entry Name	NCOA3_HUMAN

NCBI Protein Information	nuclear receptor coactivator 3; CBP-interacting protein; receptor-associated coactivator 3; amplified in breast cancer 1 protein; steroid receptor coactivator protein 3; class E basic helix-loop-helix protein 42; thyroid hormone receptor activator molecule 1
UniProt Comments for NCOA3	SRC-3: a histone acetyltransferase and nuclear receptor coactivator. 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). Involved in the coactivation of the NF-kappa-B pathway via its interaction with the NFKB1 subunit. Activity is enhanced by various hormones and TNF. Acetylation by CREBBP may suppress coactivation of target genes by disrupting its association with nuclear receptors. Frequently amplified or overexpressed in breast and ovarian cancers. Five alternatively spliced isoforms have been described. Protein type: Motility/polarity/chemotaxis; EC 2.3.1.48; Acetyltransferase; Nuclear receptor co-regulator; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 20q12 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: protein dimerization activity; ligand-dependent nuclear receptor binding; protein binding; signal transducer activity; histone acetyltransferase activity; androgen receptor binding; ligand-dependent nuclear receptor transcription coactivator activity; transcription coactivator activity; protein N-terminus binding; thyroid hormone receptor binding; chromatin binding; nuclear hormone receptor binding Biological Process: developmental growth; intracellular receptor-mediated signaling pathway; transcription, DNA-dependent; multicellular organism growth; positive regulation of transcription, DNA-dependent; androgen receptor signaling pathway; vagina development; positive regulation of transcription from RNA polymerase II promoter; histone acetylation; positive regulation of keratinocyte differentiation; cellular response to hormone stimulus
Research Articles on NCOA3	**1.** Results suggest that AIB1 promotes BC cell proliferation through the AKT pathway and E2F1. Furthermore, AIB1 overexpression predicts tumour progression in patients with non-muscle-invasive BC.
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