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NCOA3 Recombinant Rabbit mAb

Catalog # AP100312

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	Q9Y6Q9
Other Accession	Q9Y6Q9
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	155293
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SRC/p160 nuclear receptor coactivator family. Contains 1 basic helix-loop-helix (bHLH) domain. Contains 1 PAS (PER-ARNT-SIM) domain.
SUBUNIT	Interacts with CARM1. Present in a complex containing NCOA2, IKKA, IKKB, IKBKG and the histone acetyltransferase protein CREBBP. Interacts with CASP8AP2, NR3C1 and PCAF. Interacts with ATAD2 and this interaction is enhanced by estradiol. Found in a complex containing NCOA3, AR and MAK. Interacts with DDX5. Interacts with PSMB9. Interacts with NPAS2. Interacts with NR4A3.
Post-translational modifications	Acetylated by CREBBP. Acetylation occurs in the RID domain, and disrupts the interaction with nuclear receptors and regulates its function. Methylated by CARM1. Phosphorylated by IKK complex. Regulated its function.
Background Descriptions	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. [provided by RefSeq, Mar 2010],

Additional Information

Gene ID	8202
Other Names	ACTR; AIB-1; AIB1; CAGH16; CTG26; KAT13B; RAC3; SRC-3; SRC3; TNRC14; TNRC16; TRAM-1; bHLHe42; pCIP; 2010305B15Rik; Tram1; p/Cip; NCOA3_HUMAN; NCOA3; NCoA-3; 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); 2.3.1.48; NCOA3_MOUSE; Amplified in breast cancer-1 protein homolog (AIB-1); CBP-interacting protein (p/CIP | pCIP); Thyroid hormone

	receptor activator molecule 1 (ACTR | TRAM-1); nuclear receptor coactivator 3; steroid receptor coactivator 3; receptor-associated coactivator 3; thyroid hormone receptor activator molecule 1; Amplified in breast cancer 1 protein; CBP-interacting protein; Class E basic helix-loop-helix protein 42; RAC-3; Steroid receptor coactivator protein 3
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000,IP=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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