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NCOA3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1225a

Product Information

Application	WB, E
Primary Accession	Q9Y6Q9
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2C11B12
Isotype	IgG1
Calculated MW	155293
Description	NCOA3: nuclear receptor coactivator 3. 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. Two 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.
Immunogen	Purified recombinant fragment of NCOA3 (aa1-200) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	8202
Other Names	Nuclear receptor coactivator 3, NCoA-3, 2.3.1.48, 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
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NCOA3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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

References

1. Mol Cell Biol. 2005 Sep;25(18):8273-84. 2. J Clin Oncol. 2006 Oct 1;24(28):4565-9.

Images

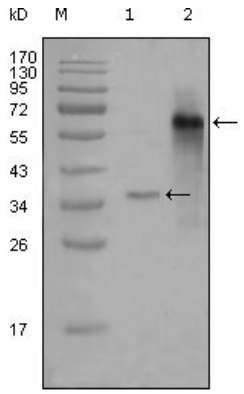

Figure 1: Western blot analysis using NCOA3 mouse mAb against truncated Trx-NCOA3 recombinant protein (1) and truncated NCOA3 (aa1-200)-hIgGFc transfected CHOK1 cell lysate (2).

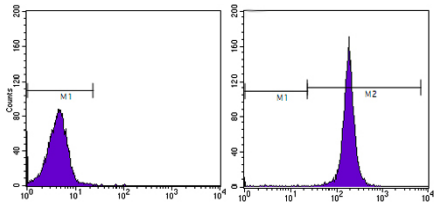

Figure 7: Flow cytometric analysis of Hela cells using CD44 mouse mAb (right) and negative control (left).

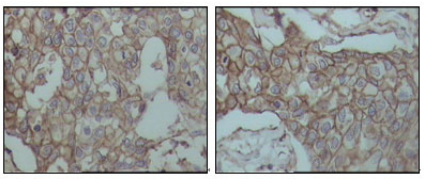

Figure 3: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissues, showing membrane localization with DAB staining using CD44 mouse mAb.