



E91128

NCOA1 Polyclonal Antibody

Catalog Number: E91128

Amount: 100ul

Background: There are three members of the steroid receptor co-activator (SRC) family of proteins: SRC-1 (NCoA-1), SRC-2 (TIF2/GRIP1/NCoA-2), and SRC-3 (ACTR/pCIP/RAC3/TRAM-1/AIB1). All SRC family members share significant structural homology and function to stimulate transcription mediated by nuclear hormone receptors and other transcriptional activators such as Stat3, NF- κ B, E2F1, and p53 (1-4). Two SRC proteins, SRC-1 and SRC-3, function as histone acetyltransferases (5,6). In addition, all three family members can recruit other histone acetyltransferases (CBP/p300, PCAF) and histone methyltransferases (PRMT1, CARM1) to target promoters and cooperate to enhance expression of many genes (5-8). The SRC proteins play important roles in multiple physiological processes including cell proliferation, cell survival, somatic cell growth, mammary gland development, female reproductive function, and vasoprotection (9). SRC-1 and SRC-3 are conduits for kinase-mediated growth factor signaling to the estrogen receptor and other transcriptional activators. Seven SRC-1 phosphorylation sites and six SRC-3 phosphorylation sites have been identified, which are induced by steroids, cytokines, and growth factors and involve multiple kinase signaling pathways (9-11). Research has shown that all three SRC family members are associated with increased activity of nuclear receptors in breast, prostate, and ovarian carcinomas. According to the literature, SRC-3 is frequently amplified or overexpressed in a number of cancers (12), and SRC-1/PAX3 and SRC-2/MYST3 translocations are found associated with rhabdomyosarcoma and acute myeloid leukemia, respectively (13,14).

Species: Rabbit

Isotype: IgG

Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonyms: NCOA1;F-SRC-1;KAT13A;MGC129719;MGC129720;NCoA-1;RIP160;SRC-1;SRC1;bHLHe42;bHLHe74 ;

Immunogen: Recombinant protein of human NCOA1

Purification: Affinity purification

Reactivity: H M R

Applications: WB IHC

Molecular Weight: 157kDa

Swiss-Prot No. : Q15788

Gene ID: 8648

References: 1. Giraud, S. et al. (2002) J. Biol. Chem. 277, 8004-8011. 2. Na, S.Y. et al. (1998) J. Biol. Chem. 273, 10831-10834. 3. Louie, M.C. et al. (2004) Mol. Cell Biol. 24, 5157-5171. 4. Lee, S.K. et al. (1999) Mol. Endocrinol. 13, 1924-1933. 5. Spencer, T.E. et al. (1997) Nature 389, 194-198. 6. Chen, H. et al. (1997) Cell 90, 569-580. 7. Koh, S.S. et al. (2001) J. Biol. Chem. 276, 1089-1098. 8. Chen, D. et al. (1999) Science 284, 2174-2177. 9. Wu, R.C. et al. (2004) Mol. Cell 15, 937-949. 10. Rowan, B.G. et al. (2000) J. Biol. Chem. 275, 4475-4483. 11. Zhou, H.J. et al. (2005) Cancer Res. 65, 7976-7983. 12. Torres-Arzayus, M.I. et al. (2004) Cancer Cell 6, 263-274. 13. Wachtel, M. et al. (2004) Cancer Res. 64, 5539-5545. 14. Deguchi, K. et al. (2003) Cancer Cell 3, 259-271.

For Research Use Only

