

NCOA1 (Phospho Thr1179) Rabbit pAb

CatalogNo: YP1597

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, ELISA

MW

- 158kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-2000

ELISA 1:5000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human SRC-1 (Phospho Thr1179)

Specificity This antibody detects endogenous levels of Human, Mouse SRC-1 (Phospho Thr1179). The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): PGtPP

| Target Information

Gene name NCOA1 BHLHE74 SRC1

Protein Name SRC-1 (Phospho Thr1179)

Organism	Gene ID	UniProt ID
Human	8648 ;	Q15788 ;
Mouse	17977 ;	P70365 ;

Cellular Localization Nucleus .

Tissue specificity Widely expressed.

Function Catalytic activity:Acetyl-CoA + histone = CoA + acetylhistone. ,Disease:A chromosomal aberration involving NCOA1 is a cause of rhabdomyosarcoma. Translocation t (2;2) (q35;p23) with PAX3 generates the NCOA1-PAX3 oncogene consisting of the N-terminus part of PAX3 and the C-terminus part of NCOA1. The fusion protein acts as a transcriptional activator. Rhabdomyosarcoma is the most common soft tissue carcinoma in childhood , representing 5-8% of all malignancies in children. ,Domain:Contains 7 Leu-Xaa-Xaa-Leu-Leu (LXXLL) motifs. LXXLL motifs 3 , 4 and 5 are essential for the association with nuclear receptors. LXXLL motif 7 , which is not present in isoform 2 , increases the affinity for steroid receptors in vitro. ,Domain:The C-terminal (1107-1441) part mediates the histone acetyltransferase (HAT) activity. ,Function:Nuclear receptor coactivator that directly binds nuclear receptors and stimulates the transcriptional activities in a hormone-dependent fashion. Involved in the coactivation of different nuclear receptors , such as for steroids (PGR , GR and ER) , retinoids (RXRs) , thyroid hormone (TRs) and prostanoids (PPARs) . Also involved in coactivation mediated by STAT3 , STAT5A , STAT5B and STAT6 transcription factors. Displays histone acetyltransferase activity toward H3 and H4; the relevance of such activity remains however unclear. Plays a central role in creating multisubunit coactivator complexes that act via remodeling of chromatin , and possibly acts by participating in both chromatin remodeling and recruitment of general transcription factors. Required with NCOA2 to control energy balance between white and brown adipose tissues. Required for mediating steroid hormone response. Isoform 2 has a higher thyroid hormone-dependent transactivation activity than isoform 1 and isoform 3. ,PTM:Phosphorylated upon DNA damage , probably by ATM or ATR. ,PTM:Sumoylated; sumoylation increases its interaction with PGR and prolongs its retention in the nucleus. It does not prevent its ubiquitination and does not exert a clear effect on the stability of the protein. ,PTM:Ubiquitinated; leading to proteasome-mediated degradation. Ubiquitination and sumoylation take place at different sites. ,similarity:Belongs to the SRC/p160 nuclear receptor coactivator family. ,similarity:Contains 1 basic helix-loop-helix (bHLH) domain. ,similarity:Contains 1 PAS (PER-ARNT-SIM) domain. ,subunit:Interacts with the methyltransferase CARM1 (By similarity) . Interacts with NCOA6 and NCOA2. Interacts with the FDL motif of STAT5A and STAT5B. Interacts with the LXXLL motif of STAT6. Interacts with STAT3 following IL-6 stimulation. Interacts with the basal transcription factor GTF2B. Interacts with the histone acetyltransferases EP300 and CREBBP. Interacts with PCAF , COPS5 , NR3C1 and TTLL5/STAMP. ,tissue specificity:Widely expressed. ,

| Validation Data

| Contact information

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