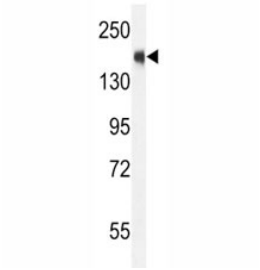
NCOA1 Antibody / Nuclear Receptor Coactivator 1 Antibody (F50522)

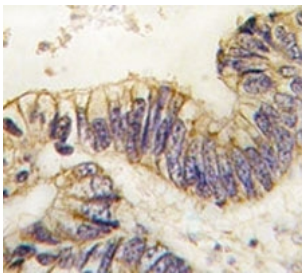
Catalog No.	Formulation	Size
F50522-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50522-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Pig
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q15788
Applications	Western blot: 1:1000 IHC (Paraffin): 1:10-1:50
Limitations	This NCOA1 Antibody / Nuclear Receptor Coactivator 1 Antibody is available for research use only.



NCOA1 Antibody Human CEM Cell WB. Western blot analysis of human CEM cell lysate using NCOA1 Antibody. A prominent band is detected at approximately 160 kDa, consistent with the expected molecular weight of NCOA1/SRC-1. This NCOA1 Antibody, also called a Nuclear Receptor Coactivator 1 Antibody, detects NCOA1 in human CEM cells and supports studies of nuclear receptor coactivation, hormone signaling and transcriptional regulation.



NCOA1 Antibody Human Colon Carcinoma IHC. IHC staining of FFPE human colon carcinoma tissue using NCOA1 Antibody. Positive NCOA1 staining is observed in the carcinoma cells. This NCOA1 Antibody, also called a Nuclear Receptor Coactivator 1 Antibody, demonstrates NCOA1 expression in human colon carcinoma and supports studies of nuclear receptor coactivation, hormone signaling and transcriptional regulation.

Description

NCOA1 Antibody / Nuclear Receptor Coactivator 1 Antibody recognizes NCOA1, a transcriptional coregulator that functions as a coactivator for members of the nuclear receptor superfamily. NCOA1 is also widely known as SRC-1, or Steroid Receptor Coactivator 1, and is a founding member of the p160 nuclear receptor coactivator family. Following ligand-dependent activation of nuclear receptors, NCOA1 can associate with these transcription factors and facilitate recruitment of additional regulatory proteins to hormone-responsive genes. Through these interactions, NCOA1 helps connect receptor activation with chromatin regulation and transcriptional responses.

NCOA1 contains multiple LXXLL motifs that mediate interactions with ligand-bound nuclear receptors. The protein also contains transcriptional activation domains capable of recruiting chromatin-modifying factors such as CBP and p300. These interactions promote histone acetylation and changes in chromatin accessibility that facilitate transcription. NCOA1 itself has also been associated with histone acetyltransferase activity and is designated KAT13A, reflecting the close relationship between nuclear receptor coactivation and chromatin-dependent regulation of gene expression.

Nuclear Receptor Coactivator 1 participates in transcriptional responses mediated by estrogen, progesterone, androgen, glucocorticoid, thyroid hormone and other nuclear receptors. Its influence on transcription can depend on receptor type, ligand availability, cellular context and the abundance of other transcriptional coregulators. An NCOA1 Antibody can therefore support investigation of the molecular mechanisms that determine the magnitude and specificity of nuclear receptor-dependent gene expression and cellular responses to hormonal signals.

NCOA1 has important roles in endocrine and metabolic biology and has been investigated in reproductive tissues, hormone-responsive organs and metabolic regulation. Altered nuclear receptor coactivator expression or activity can modify hormone-dependent transcriptional programs and has also been studied in cancer biology. In particular, NCOA1/SRC-1 has attracted interest in hormone-responsive breast and prostate cancers, where changes in steroid receptor signaling and transcriptional coregulation may influence tumor progression and therapeutic response.

As a transcriptional coactivator positioned between activated nuclear receptors and the transcription machinery, NCOA1 provides a useful target for investigating hormone signaling, chromatin regulation and receptor-dependent gene expression. Its interactions with nuclear receptors and other transcriptional regulators also connect NCOA1 with broader mechanisms of cellular signal transduction. NSJ Bioreagents supplies antibodies to NCOA1 and related proteins involved in transcriptional regulation. An NCOA1 Antibody can support research on Nuclear Receptor Coactivator 1, hormone-responsive transcription, chromatin regulation and nuclear receptor signaling.

For additional information on NCOA1 / SRC-1 and its role in steroid hormone receptor signaling and transcriptional coactivation, see our SRC-1 Antibody page.

Application Notes

Titration of the NCOA1 Antibody / Nuclear Receptor Coactivator 1 Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 1338-1367 from the human protein was used as the immunogen for this SRC-1 / NCOA1

antibody.

Storage

Aliquot the SRC-1 / NCOA1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

NCOA1 antibody, Nuclear Receptor Coactivator 1 antibody, SRC-1 antibody, Steroid Receptor Coactivator 1 antibody, KAT13A antibody

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