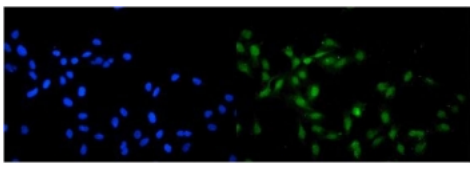
SRC-1 Antibody / NCOA1 (R30158)

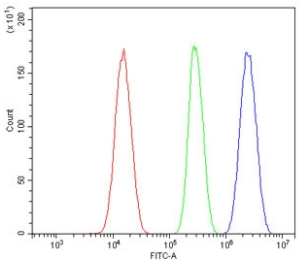
Catalog No.	Formulation	Size
R30158	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

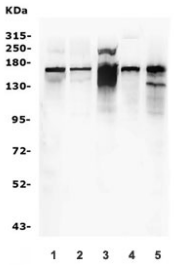
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q15788
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 2-4ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This SRC-1 antibody is available for research use only.



Immunofluorescent staining of FFPE human U-2 OS cells with SRC-1 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human SiHa cells with SRC-1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SRC-1 antibody.



Western blot testing of 1) human SKO-V-3, 2) human SGC-7901, 3) human Jurkat, 4) rat kidney and 5) mouse NIH 3T3 lysate. Predicted molecular weight ~157 kDa.

Description

The nuclear receptor coactivator 1 (NCOA1), also known as SRC-1, is a transcriptional coregulatory protein that contains several nuclear receptor interacting domains and an intrinsic histone acetyltransferase activity. Src is recruited to DNA promotion sites by ligand-activated nuclear receptors. It in turn acylates histones, which makes downsteam DNA more accessible to transcription. Hence, it assists nuclear receptors in the upregulation of DNA expression. It has been found that the protein can enhance the transcriptional activity of ligand-bound PGR but does not alter the basal activity of the target promoter. It also enhances estrogen receptor, glucocorticoid receptor, thyroid hormone receptor, and retinoid X receptor transcriptional activities through their cognate DNA response elements in the presence of hormone. Additionally, Src may play a role as a bridging molecule between nuclear hormone receptors and general transcription factors.

Application Notes

The stated application concentrations are suggested starting points. Titration of the SRC-1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human partial recombinant protein (AA 614-826) was used as the immunogen for this SRC-1 antibody.

Storage

After reconstitution, the SRC-1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.