

# ASC-1 (H-300): sc-292670

## BACKGROUND

Activating signal co-integrator-1 (ASC-1, originally identified as TRIP4) is a transcriptional coactivator of nuclear receptors that associates with specific components of the RNA polymerase II complex and binds the basal transcription factors TBP and TFIIA. ASC-1 functions with the transcription integrators SRC-1 and CBP/p300 through its zinc-finger motif and is dependent on their ligand-dependent transactivation domain, AF2. Endogenous ASC-1 in HeLa cells is predominantly a nuclear protein. Under conditions of serum starvation, ASC-1 localizes to the cytoplasm. However, when serum starved in the presence of ligand or coexpressed CBP or SRC-1, ASC-1 remains in the nucleus. This behavior of ASC-1 suggests that it may play an important role in establishing distinct coactivator complexes under different cellular conditions.

## REFERENCES

- Lee, J.W., et al. 1995. Two classes of proteins dependent on either the presence or absence of thyroid hormone for interaction with the thyroid hormone receptor. *Mol. Endocrinol.* 9: 243-254.
- Mangelsdorf, D.J., et al. 1995. The nuclear receptor superfamily: the second decade. *Cell* 83: 835-839.
- Yao, T.P., et al. 1996. The nuclear hormone receptor coactivator SRC-1 is a specific target of p300. *Proc. Natl. Acad. Sci. USA* 93: 10626-10631.
- Shibata, H., et al. 1997. Role of co-activators and co-repressors in the mechanism of steroid/thyroid receptor action. *Recent Prog. Horm. Res.* 52: 141-164.
- Kim, H.J., et al. 1999. Activating signal co-integrator 1, a novel transcription coactivator of nuclear receptors, and its cytosolic localization under conditions of serum deprivation. *Mol. Cell. Biol.* 19: 6323-6332.

## CHROMOSOMAL LOCATION

Genetic locus: TRIP4 (human) mapping to 15q22.31; Trip4 (mouse) mapping to 9 C.

## SOURCE

ASC-1 (H-300) is a rabbit polyclonal antibody raised against amino acids 282-581 mapping at the C-terminus of ASC-1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292670 X, 200 µg/0.1 ml.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

ASC-1 (H-300) is recommended for detection of ASC-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ASC-1 (H-300) is also recommended for detection of ASC-1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ASC-1 siRNA (h): sc-39159, ASC-1 siRNA (m): sc-38808, ASC-1 shRNA Plasmid (h): sc-39159-SH, ASC-1 shRNA Plasmid (m): sc-38808-SH, ASC-1 shRNA (h) Lentiviral Particles: sc-39159-V and ASC-1 shRNA (m) Lentiviral Particles: sc-38808-V.

ASC-1 (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

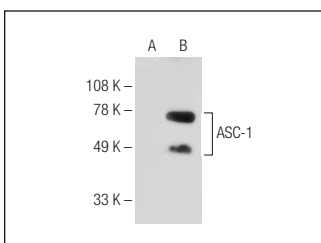
Molecular Weight of ASC-1: 68 kDa.

Positive Controls: ASC-1 (m): 293T Lysate: sc-118583 or K-562 whole cell lysate: sc-2203.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



ASC-1 (H-300): sc-292670. Western blot analysis of ASC-1 expression in non-transfected: sc-117752 (A) and mouse ASC-1 transfected: sc-118583 (B) 293T whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.