

# ANKRA (T-18): sc-83787



The Power to Question

## BACKGROUND

ANKRA (ankyrin repeat family A), also known as ANKRA2 (ankyrin repeat family A protein 2) or RFX-B-like 2, is an abundantly expressed, 313 amino acid protein found in a wide variety of tissues. It contains an N-terminal helix-loop-helix domain and three ankyrin repeats. ANKRA is known to interact with Max1 $\alpha$ , megalin and the histone deacetylases HDAC4 and HDAC5. Typically, ANKRA is evenly distributed throughout the cell, however, in the presence of HDACs, ANKRA specifically localizes to the nucleus. In the nucleus, ANKRA appears to be important for transcriptional repression, functioning as a corepressor and binding to the C-terminal sequence of AHRR. ANKRA can become redistributed in the cell in response to CaMK signaling.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ANKRA2 (human) mapping to 5q13.2; Ankra2 (mouse) mapping to 13 D1.

## SOURCE

ANKRA (T-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ANKRA of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-83787 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-83787 X, 200  $\mu$ g/0.1 ml.

## APPLICATIONS

ANKRA (T-18) is recommended for detection of ANKRA of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

ANKRA (T-18) is also recommended for detection of ANKRA in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ANKRA siRNA (h): sc-72495, ANKRA siRNA (m): sc-72496, ANKRA shRNA Plasmid (h): sc-72495-SH, ANKRA shRNA Plasmid (m): sc-72496-SH, ANKRA shRNA (h) Lentiviral Particles: sc-72495-V and ANKRA shRNA (m) Lentiviral Particles: sc-72496-V.

ANKRA (T-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ANKRA: 34 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## 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.

## PROTOCOLS

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