

# Pur $\alpha$ (S-14): sc-165317

## BACKGROUND

The Pur protein family consists of four members: Pur $\alpha$ , Pur $\beta$  and two isoforms of Pur $\gamma$ . Pur $\alpha$ , a protein strongly conserved throughout evolution, is a single-stranded (ss) DNA- and RNA-binding protein that contains three conserved signature repeats, which have an affinity for guanosine-rich motifs, specifically the (GGN)<sub>n</sub> sequence, PUR element. The ubiquitously expressed Pur $\alpha$  protein is involved in many cellular processes, including transcriptional regulation, the cell cycle, oncogenic transformation and postnatal brain development. Pur $\alpha$  binds HIV-1 TAR RNA and activates HIV-1 transcription. Pur $\alpha$  also appears to play a role in the progression of Alzheimer's disease, prostate cancer, fragile X-associated tremor/ataxia syndrome and JC virus. Targeting of Pur $\alpha$  may potentially lead to promising therapeutic approaches for various diseases.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: PURA (human) mapping to 5q31.3; Pura (mouse) mapping to 18 B2.

## SOURCE

Pur $\alpha$  (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Pur $\alpha$  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-165317 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-165317 X, 200  $\mu$ g/0.1 ml.

## APPLICATIONS

Pur $\alpha$  (S-14) is recommended for detection of Pur $\alpha$  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).

Suitable for use as control antibody for Pur $\alpha$  siRNA (h): sc-91623, Pur $\alpha$  siRNA (m): sc-152591, Pur $\alpha$  shRNA Plasmid (h): sc-91623-SH, Pur $\alpha$  shRNA Plasmid (m): sc-152591-SH, Pur $\alpha$  shRNA (h) Lentiviral Particles: sc-91623-V and Pur $\alpha$  shRNA (m) Lentiviral Particles: sc-152591-V.

Pur $\alpha$  (S-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Pur $\alpha$ : 39 kDa.

Positive Controls: human skeletal muscle tissue extract.

## 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.



Try **Pur $\alpha$  (80-L): sc-130397**, our highly recommended monoclonal alternative to Pur $\alpha$  (S-14).