

# TFIIIC35 (K-14): sc-169588

## BACKGROUND

RNA polymerase (pol) III synthesizes tRNA, 5s rRNA, 7SL RNA and U6 snRNA and is overexpressed in many transformed cell lines and tumors *in vivo*, since cells must duplicate its protein components before division. Therefore, in order to maintain rapid growth, cells must produce a high level of Pol III transcribed RNA, which requires the presence of the TFIIB and TFIIC2 transcription factor complexes. The TFIIC2 complex recruits RNA pol III and TFIIB to promoter elements and may be a key component in the deregulation of malignant cells. TFIIC35 (transcription factor IIC 35 kDa subunit), also known as GTF3C6 (general transcription factor 3C polypeptide 6), CDA020 or NPD020, is a 213 amino acid nuclear protein that belongs to the TFIIC subunit 6 family. TFIIC35 exists as a member of the DNA-binding TFIIC2 subcomplex, which interacts with tRNA and virus-associated RNA promoters, and consists of TFIIC35, TFIIC63, TFIIC90, TFIIC102, TFIIC110 and TFIIC220.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: GTF3C6 (human) mapping to 6q21; Gtf3c6 (mouse) mapping to 10 B1.

## SOURCE

TFIIC35 (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TFIIC35 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.

Blocking peptide available for competition studies, sc-169588 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TFIIC35 (K-14) is recommended for detection of TFIIC35 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); non cross-reactive with other TFIIC family members.

TFIIC35 (K-14) is also recommended for detection of TFIIC35 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for TFIIC35 siRNA (h): sc-95230, TFIIC35 siRNA (m): sc-154233, TFIIC35 shRNA Plasmid (h): sc-95230-SH, TFIIC35 shRNA Plasmid (m): sc-154233-SH, TFIIC35 shRNA (h) Lentiviral Particles: sc-95230-V and TFIIC35 shRNA (m) Lentiviral Particles: sc-154233-V.

Molecular Weight of TFIIC35: 24 kDa.

## 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.