

## GCN5 (N-18): sc-6303



The Power to Question

## BACKGROUND

In the intact cell, DNA closely associates with histones and other nuclear proteins to form chromatin. The remodeling of chromatin is believed to be a critical component of transcriptional regulation and a major source of this remodeling is brought about by the acetylation of nucleosomal histones. Acetylation of lysine residues in the amino-terminal tail domain of histone results in an allosteric change in the nucleosomal conformation and an increased accessibility to transcription factors by DNA. Conversely, the deacetylation of histones is associated with transcriptional silencing. Several mammalian proteins have been identified as nuclear histone acetylases, including GCN5, PCAF (for p300/CBP-associated factor), p300/CBP and the TFIID subunit TAF II p250. Mammalian HDAC1 (also designated HD1) and HDAC2 (also designated mammalian RPD3), both of which are related to the yeast transcriptional regulator Rpd3p, have been identified as histone deacetylases.

## CHROMOSOMAL LOCATION

Genetic locus: KAT2A (human) mapping to 17q21.2; Kat2a (mouse) mapping to 11 D.

## SOURCE

GCN5 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of GCN5 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. Also available as TransCruz reagent for ChIP application, sc-6303 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-6303 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

GCN5 (N-18) is recommended for detection of GCN5 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); non cross-reactive with PCAF.

GCN5 (N-18) is also recommended for detection of GCN5 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for GCN5 siRNA (h): sc-37946, GCN5 siRNA (m): sc-37947, GCN5 shRNA Plasmid (h): sc-37946-SH, GCN5 shRNA Plasmid (m): sc-37947-SH, GCN5 shRNA (h) Lentiviral Particles: sc-37946-V and GCN5 shRNA (m) Lentiviral Particles: sc-37947-V.

GCN5 (N-18) X TransCruz antibody is recommended for ChIP assays.

Molecular Weight of GCN5: 90 kDa.

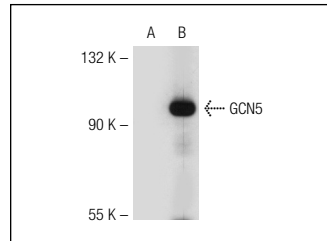
## RESEARCH USE

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

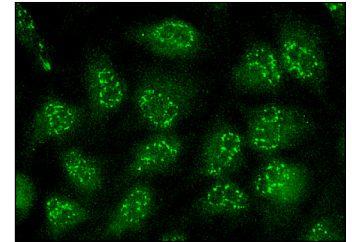
## STORAGE

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

## DATA



GCN5 (N-18): sc-6303. Western blot analysis of GCN5 expression in non-transfected: sc-117752 (A) and human GCN5 transfected: sc-115311 (B) 293T whole cell lysates.



GCN5 (N-18): sc-6303. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

## SELECT PRODUCT CITATIONS

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