

# ZFAT (N-17): sc-87510

## BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. Zinc finger protein ZFAT, also known as zinc finger protein 406, is a 1,243 amino acid protein that contains 19 C<sub>2</sub>H<sub>2</sub>-type zinc fingers. Single-nucleotide polymorphisms (SNPs) within the gene encoding ZFAT may be associated with susceptibility to autoimmune thyroid disease. Overexpression of ZFAT causes downregulation of many genes that are involved in the immune response. ZFAT is strongly expressed in kidney, testis, ovary, tonsil, placenta, spleen and peripheral blood leukocytes. There are three isoforms of ZFAT that are produced as a result of alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ZFAT (human) mapping to 8q24.22; Zfat (mouse) mapping to 15 D2.

## SOURCE

ZFAT (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZFAT 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-87510 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-87510 X, 100  $\mu$ g/0.1 ml.

## APPLICATIONS

ZFAT (N-17) is recommended for detection of ZFAT of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

ZFAT (N-17) is also recommended for detection of ZFAT in additional species, including equine, canine, bovine, porcine and avian.

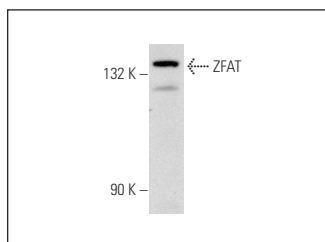
Suitable for use as control antibody for ZFAT siRNA (h): sc-77821, ZFAT siRNA (m): sc-155515, ZFAT shRNA Plasmid (h): sc-77821-SH, ZFAT shRNA Plasmid (m): sc-155515-SH, ZFAT shRNA (h) Lentiviral Particles: sc-77821-V and ZFAT shRNA (m) Lentiviral Particles: sc-155515-V.

ZFAT (N-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ZFAT: 139 kDa.

Positive Controls: LADMAC whole cell lysate: sc-364189.

## DATA



ZFAT (N-17): sc-87510. Western blot analysis of ZFAT expression in LADMAC whole cell lysate.

## 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.