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 krueppel-type DNA-binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. ZNF217, also known as ZABC1, is a zinc-finger protein belonging to the krueppel C2H2-type zinc-finger protein family. It localizes to the nucleus and may play a role in transcriptional repression of a variety of genes through the recruitment of corepressor complexes containing proteins such as CtBP, HDAC1 and HDAC2. In addition, ZNF217 participates in cell differentiation and appears to function as an oncogene. Expression of ZNF217 is amplified in various tumors and overexpression of the protein can attenuate apoptotic signals and lead to epithelial cell immortalization.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: ZNF217 (human) mapping to 20q13.2; Zfp217 (mouse) mapping to 2 H3.

SOURCE
ZNF217 (C-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ZNF217 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-55351 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS
ZNF217 (C-17) is recommended for detection of ZNF217 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ZNF217 (C-17) is also recommended for detection of ZNF217 in additional species, including equine, canine, bovine and porcine.


Molecular Weight of ZNF217 doublet: 120/130 kDa.

Positive Controls: K-562 nuclear extract: sc-2130, DU 145 cell lysate: sc-2268 or MDA-MB-231 cell lysate: sc-2232.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATE
ZNF217 (C-17): sc-55351. Immunoperoxidase staining of formalin fixed, paraffin embedded human prostate tissue showing nuclear staining of glandular cells.

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.