# POGZ (S-13): sc-131759

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## BACKGROUND

Pogo transposable element with ZNF domain (POGZ) is a zinc-finger protein containing a transposase domain at the C-terminus. 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. POGZ, a 1,410 amino acid protein that is localized to the nucleus, has been observed to interact with the transcription factor Sp1 in a yeast 2-hybrid system. At least five named isoforms of POGZ have been characterized.

## REFERENCES

1. Pengue, G., et al. 1993. The ZNF35 human zinc-finger gene encodes a sequence-specific DNA-binding protein. FEBS Lett. 321: 233-236.

2. Seki, N., et al. 1997. Characterization of cDNA clones in size-fractionated cDNA libraries from human brain. DNA Res. 4: 345-349.

3. Gunther, M., et al. 2000. A set of proteins interacting with transcription factor Sp1 identified in a two-hybrid screening. Mol. Cell. Biochem. 210: 131-142.

4. Ohira, M., et al. 2003. Neuroblastoma oligo-capping cDNA project: toward the understanding of the genesis and biology of neuroblastoma. Cancer Lett. 197: 63-68.

5. Shannon, M., et al. 2003. Differential expansion of zinc-finger transcription factor loci in homologous human and mouse gene clusters. Genome Res. 13: 1097-1110.

## CHROMOSOMAL LOCATION

Genetic locus: POGZ (human) mapping to 1q21.3; Pogz (mouse) mapping to 3 F2.1.

## SOURCE

POGZ (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of POGZ 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-131759 P, (100 µg 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-131759 X, 200 µg/0.1 ml.

## 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.

## APPLICATIONS

POGZ (S-13) is recommended for detection of POGZ isoforms 1-5 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).

Suitable for use as control antibody for POGZ siRNA (h): sc-88704, POGZ siRNA (m): sc-152367, POGZ shRNA Plasmid (h): sc-88704-SH, POGZ shRNA Plasmid (m): sc-152367-SH, POGZ shRNA (h) Lentiviral Particles: sc-88704-V and POGZ shRNA (m) Lentiviral Particles: sc-152367-V.

POGZ (S-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.
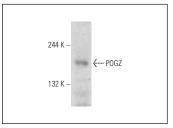
Molecular Weight of POGZ: 155 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409 or IMR-32 nuclear extract: sc-2148.

## 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.

## DATA



POGZ (S-13): sc-131759. Western blot analysis of POGZ expression in IMR-32 nuclear extract.

## PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.