

POGZ (P-19): sc-102062

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 two-hybrid system. At least five named isoforms of POGZ have been characterized.

REFERENCES

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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.
6. Beausoleil, S.A., et al. 2004. Large-scale characterization of HeLa cell nuclear phosphoproteins. *Proc. Natl. Acad. Sci. USA* 101: 12130-12135.
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8. Cantin, G.T., et al. 2008. Combining protein-based IMAC, peptide-based IMAC, and MudPIT for efficient phosphoproteomic analysis. *J. Proteome Res.* 7: 1346-1351.

CHROMOSOMAL LOCATION

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

SOURCE

POGZ (P-19) is a purified rabbit polyclonal antibody raised against POGZ of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

RESEARCH USE

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

APPLICATIONS

POGZ (P-19) is recommended for detection of POGZ of mouse, rat, human and canine 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), 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).

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.

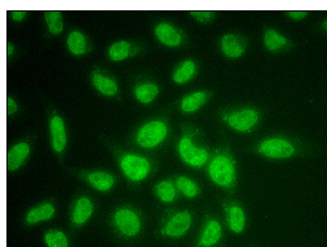
Molecular Weight of POGZ: 155 kDa.

Positive Controls: human kidney extract: sc-363764 or human lung extract: sc-363767.

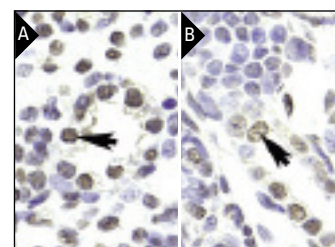
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



POGZ (P-19): sc-102062. Immunofluorescence staining of formalin-fixed HeLa cells showing nuclear localization. Kindly provided by Yang Xiang, Ph.D., Division of Newborn Medicine, Boston Children's Hospital, Cell Biology Department, Harvard Medical School.



POGZ (P-19): sc-102062. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lung tissue (A) and human kidney tissue (B) showing nuclear staining.

STORAGE

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