

POGK (F-1): sc-515752

BACKGROUND

POGK (pogo transposable element with KRAB domain), also known as BASS2 or LST003, is a 609 amino acid protein that may be a member of the DNA-mediated transposon family. Localizing to the nucleus, POGK contains an N-terminal KRAB (Krüppel-associated box) domain, an HTH CENP-B-type (helix-turn-helix and centromere protein B-type) DNA-binding domain and a C-terminal DDE domain. The KRAB domain is a potent transcriptional repression motif and is approximately 75 amino acids in length. DDE domains are catalytic motifs consisting of 2 conserved aspartic acids separated by 70 amino acids and a conserved glutamic acid that is further separated by another 35 amino acids. DDE domains are characteristic of DNA transposases and retroviral integrases.

REFERENCES

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- Greenhalf, W., et al. 1999. A selection system for human apoptosis inhibitors using yeast. *Yeast* 15: 1307-1321.
- Nagase, T., et al. 2000. Prediction of the coding sequences of unidentified human genes. XVII. The complete sequences of 100 new cDNA clones from brain which code for large proteins *in vitro*. *DNA Res.* 7: 143-150.
- Sarkar, A., et al. 2003. Molecular evolutionary analysis of the widespread piggyBac transposon family and related "domesticated" sequences. *Mol. Genet. Genomics* 270: 173-180.
- Rivieccio, V., et al. 2005. Expression, purification and partial characterization of the Krüppel-associated box (KRAB) from the human ZNF2 protein. *Protein Pept. Lett.* 12: 527-532.

CHROMOSOMAL LOCATION

Genetic locus: POGK (human) mapping to 1q24.1.

SOURCE

POGK (F-1) is a mouse monoclonal antibody raised against amino acids 108-407 mapping within an internal region of POGK of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

POGK (F-1) is available conjugated to agarose (sc-515752 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515752 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515752 PE), fluorescein (sc-515752 FITC), Alexa Fluor® 488 (sc-515752 AF488), Alexa Fluor® 546 (sc-515752 AF546), Alexa Fluor® 594 (sc-515752 AF594) or Alexa Fluor® 647 (sc-515752 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515752 AF680) or Alexa Fluor® 790 (sc-515752 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

POGK (F-1) is recommended for detection of POGK of human origin by Western Blotting (starting dilution 1:100, 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 POGK siRNA (h): sc-88850, POGK shRNA Plasmid (h): sc-88850-SH and POGK shRNA (h) Lentiviral Particles: sc-88850-V.

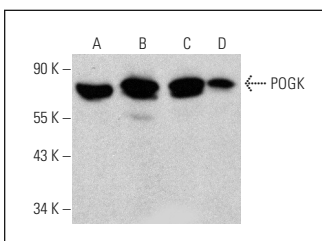
Molecular Weight of POGK: 69 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, Jurkat nuclear extract: sc-2132 or MCF7 nuclear extract: sc-2149.

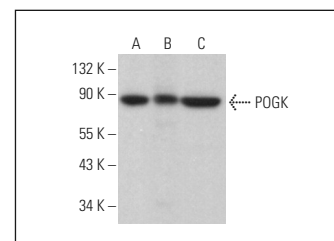
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



POGK (F-1): sc-515752. Western blot analysis of POGK expression in HeLa (A), Jurkat (B), MCF7 (C) and A549 (D) nuclear extracts.



POGK (F-1): sc-515752. Western blot analysis of POGK expression in HeLa (A) and MOLT-4 (B) nuclear extracts and NCI-H460 whole cell lysate (C).

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.

PROTOCOLS

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