

# POGK (5Q13): sc-100648

## 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 two 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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## CHROMOSOMAL LOCATION

Genetic locus: POGK (human) mapping to 1q24.1; Pogk (mouse) mapping to 1 H2.3.

## SOURCE

POGK (5Q13) is a mouse monoclonal antibody raised against recombinant POGK of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

POGK (5Q13) is recommended for detection of POGK 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 POGK siRNA (h): sc-88850, POGK siRNA (m): sc-106426, POGK shRNA Plasmid (h): sc-88850-SH, POGK shRNA Plasmid (m): sc-106426-SH, POGK shRNA (h) Lentiviral Particles: sc-88850-V and POGK shRNA (m) Lentiviral Particles: sc-106426-V.

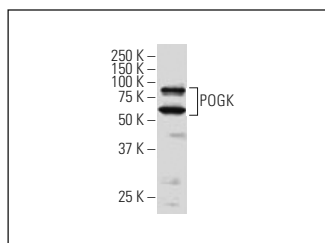
Molecular Weight of POGK: 69 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, Jurkat nuclear extract: sc-2132 or NIH/3T3 nuclear extract: sc-2138.

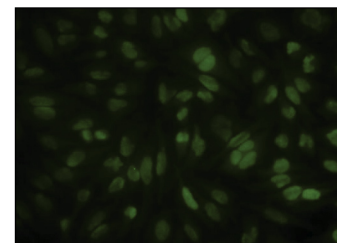
## RECOMMENDED SUPPORT REAGENTS

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 (5Q13): sc-100648. Western blot analysis of POGK expression in HeLa nuclear extract.



POGK (5Q13): sc-100648. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing nuclear localization.

## 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](http://www.scbt.com) for detailed protocols and support products.