

SMUG1 (H-55): sc-98849

BACKGROUND

The base excision repair (BER) pathway removes incorrect bases (uracil) or damaged bases (3-methyladenine) from chromatin. Each BER enzyme system addresses a specific type of base damage. Uracil-DNA glycosylases, UNG2 and SMUG1 (single-strand selective monofunctional uracil DNA glycosylase) remove uracil from both double- and single-stranded DNA in nucleosomes (chromatin core particle). The uracil-excising enzyme family shares structural and functional conservation with minimal sequence conservation. The human SMUG1 gene maps to chromosome 12q13.13.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SMUG1 (human) mapping to 12q13.13; Smug1 (mouse) mapping to 15 F3.

SOURCE

SMUG1 (H-55) is a rabbit polyclonal antibody raised against amino acids 46-94 mapping near the N-terminus of SMUG1 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.

APPLICATIONS

SMUG1 (H-55) is recommended for detection of SMUG1 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).

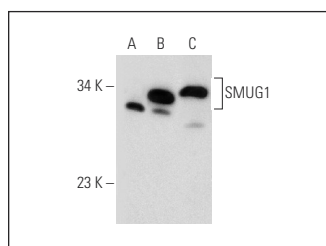
SMUG1 (H-55) is also recommended for detection of SMUG1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SMUG1 siRNA (h): sc-106768, SMUG1 siRNA (m): sc-153643, SMUG1 shRNA Plasmid (h): sc-106768-SH, SMUG1 shRNA Plasmid (m): sc-153643-SH, SMUG1 shRNA (h) Lentiviral Particles: sc-106768-V and SMUG1 shRNA (m) Lentiviral Particles: sc-153643-V.

Molecular Weight of SMUG1: 34 kDa.

Positive Controls: SMUG1 (m): 293T Lysate: sc-123667 or Jurkat whole cell lysate: sc-2204.

DATA



SMUG1 (H-55): sc-98849. Western blot analysis of SMUG1 expression in non-transfected 293T: sc-117752 (A), mouse SMUG1 transfected 293T: sc-123667 (B) and Jurkat (C) whole cell lysates.

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 or our catalog for detailed protocols and support products.



Try **SMUG1 (A-1): sc-514343** or **SMUG1 (D-2): sc-377370**, our highly recommended monoclonal alternatives to SMUG1 (H-55).