SANTA CRUZ BIOTECHNOLOGY, INC.

Mucin 5B (S-20): sc-23025



BACKGROUND

Mucins are a group of high molecular weight glycoproteins consisting of a mucin core protein and O-linked carbohydrates. The Mucin 5B gene, which contains a 3' cis-element, is one of the four mucin genes mapped to human chromosome 11p15. Although Mucin 5B is the prominent human gallbladder mucin, it is also expressed and secreted in the colon. In addition, Mucin 5B is expressed in non-inflammed middle ears and normal esophagus, and is upregulated by chronic inflammation and highly secreted in the diseased middle ear. Mucin 5B is abnormally expressed in gastric carcinomatous tissues. Its expression in gastric cancer cells is controlled by a highly active distal promoter, which is upregulated by protein kinase C and repressed under the influence of methylation. Mucous differentiation and expression of Mucin 5B is retinoic acid (RA)- or retinol-dependent. RA control of Mucin gene is mediated by the retinoid acid receptor RAR α and, to a lesser extent, by RAR γ . The correlation of Mucin protein levels in human cervical mucous with the peak at midcycle suggests that Mucin may be important in sperm transit to the uterus.

REFERENCES

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SOURCE

Mucin 5B (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Mucin 5B of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-23025 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Mucin 5B (S-20) is recommended for detection of Mucin 5B of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 Mucin 5B siRNA (h): sc-106263, Mucin 5B shRNA Plasmid (h): sc-106263-SH and Mucin 5B shRNA (h) Lentiviral Particles: sc-106263-V.

Molecular Weight of Mucin 5B: 600 kDa.

Positive Controls: human saliva or human colon carcinoma tissue.

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) Immunofluo-rescence: 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.

STORAGE

Store at 4° C, **D0 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.

MONOS Satisfation Guaranteed

Try Mucin 5B (5B#19-2E): sc-21768 or Mucin 5B (A-3): sc-393952, our highly recommended monoclonal alternatives to Mucin 5B (S-20).