

# Mucin 3B (S-20): sc-102029

## BACKGROUND

The Mucins are a family of highly glycosylated, secreted proteins with a basic structure consisting of a variable number of tandem repeats (VNTRs) encoded by 60 base pairs (Mucin 1), 69 base pairs (Mucin 2) and 51 base pairs (Mucin 3A and Mucin 3B). The number of repeats is highly polymorphic and varies among different alleles. Mucin 1 proteins are expressed as type I membrane proteins in addition to secreted forms. Mucin 1 is aberrantly expressed in epithelial tumors including breast carcinomas. Mucin 2 coats the epithelia of the intestines and airways and is associated with colonic tumors. Mucin 3A and Mucin 3B are major components of various mucus gels and, while Mucin 3A is broadly expressed in normal and tumor cells, Mucin 3B is predominantly expressed in adult and fetal small intestine and colon. Mucin 3B is a major component of mucus gels and is thought to provide protective lubrication against infectious particles at mucosal surfaces.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MUC3B (human) mapping to 7q22.1.

## SOURCE

Mucin 3B (S-20) is a purified rabbit polyclonal antibody raised against Mucin 3B of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

Mucin 3B (S-20) is recommended for detection of Mucin 3B of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Mucin 3B siRNA (h): sc-89547, Mucin 3B shRNA Plasmid (h): sc-89547-SH and Mucin 3B shRNA (h) Lentiviral Particles: sc-89547-V.

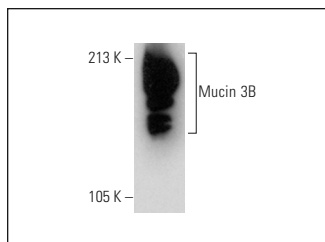
Molecular Weight of Mucin 3B: 96 kDa.

Positive Controls: human colon extract: sc-363757.

## 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).

## DATA



Mucin 3B (S-20): sc-102029. Western blot analysis of Mucin 3B expression in human colon tissue extract.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.