

Mucin 3 (5G163): sc-71619

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 3). 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 3 is a major component of various mucus gels and is broadly expressed in normal and tumor cells.

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CHROMOSOMAL LOCATION

Genetic locus: MUC3A (human) mapping to 7q22.

SOURCE

Mucin 3 (5G163) is a mouse monoclonal antibody raised against Mucin 3 tandem repeat human peptide.

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Mucin 3 (5G163) is recommended for detection of Mucin 3 expressed by normal and malignant colon tissues of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with Mucin 1 or 2.

Suitable for use as control antibody for Mucin 3A siRNA (h): sc-43162, Mucin 3A shRNA Plasmid (h): sc-43162-SH and Mucin 3A shRNA (h) Lentiviral Particles: sc-43162-V.

Molecular Weight of Mucin 3: 1100 kDa.

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.