

Mucin 6 (S-20): sc-16915

BACKGROUND

Gastric mucin (MUC) is a large glycoprotein that plays a major role in the protection of the gastrointestinal tract. MUC6 carries GlcNAc α 1 \rightarrow 4Gal β \rightarrow R structures, indicating that α 1, 4-N-acetylglucosaminyltransferase is important to the formation of the mucous glycoproteins *in vivo*. MUC6 expression is highest in the stomach and gall bladder, with lower expression in the terminal ileum and right colon. In gastric cancer, MUC6 has an altered expression. In normal stomach, MUC6 apomucin is associated with Lewis type 2; MUC6 is also expressed in gastric metaplasia, duodenum and pancreas. MUC6 is a secretory mucin, located in the deeper mucosal folds of human gall bladder, and its expression is altered with increasing degrees of inflammation. MUC6 mRNA is expressed transiently in the nephrogenic zone of the kidney in the early mid-trimester of development, and MUC6 glycoprotein is expressed in the epithelium of ureteric buds and collecting ducts, but absent from adult kidney. Proliferating bile ductular cells express MUC6 apomucin in diseased liver, especially in chronic viral hepatitis with active necroinflammation, suggesting that this secreted mucin acts as a cytoprotective agent and represents a phenotype of reactive biliary epithelium in chronic viral hepatitis. The MUC6 gene maps to human chromosome 11p15.5.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MUC6 (human) mapping to 11p15.5.

SOURCE

Mucin 6 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Mucin 6 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-16915 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Mucin 6 (S-20) is recommended for detection of Mucin 6 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 6 siRNA (h): sc-43166, Mucin 6 shRNA Plasmid (h): sc-43166-SH and Mucin 6 shRNA (h) Lentiviral Particles: sc-43166-V.

Molecular Weight of Mucin 6: 252 kDa.

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) Immunofluorescence: 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, ****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.


 MONOS
 Satisfation
 Guaranteed

Try **Mucin 6 (CLH5): sc-33668**, our highly recommended monoclonal alternative to Mucin 6 (S-20).