**BACKGROUND**

Mucin 6 (also designated MUC6 and gastric mucin) is a large glycoprotein that plays a major role in the protection of the gastrointestinal tract. Mucin 6 carries O-linked oligosaccharides that are involved in the progression of mucous glycoproteins in vivo. Mucin 6 expression is highest in the stomach and gall bladder, with lower expression in the terminal ileum and right colon. In gastric cancer, Mucin 6 has an altered expression. In normal stomach, Mucin 6 apomucin is associated with Lewis type 2; Mucin 6 is also expressed in gastric metaplasia, duodenum and pancreas. Mucin 6 is a secretory mucin, located in the deeper mucosal folds of human gall bladder, and its expression is altered with increasing degrees of inflammation. Mucin 6 mRNA is expressed transiently in the nephrogenic zone of the kidney in the early mid-trimester of development, and Mucin 6 glycoprotein is expressed in the epithelium of ureteric buds and collecting ducts, but absent from adult kidney. Proliferating bile ductular cells express Mucin 6 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.

**CHROMOSOMAL LOCATION**

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

**SOURCE**

Mucin 6 (CLH5) is a mouse monoclonal antibody raised against a synthetic peptide of the Mucin 6 tandem repeat of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Mucin 6 (CLH5) is available conjugated to agarose (sc-33668 AC), 500 µg/mg, for IP; to either phycoerythrin (sc-33668 PE), Alexa Fluor® 488 (sc-33668 AF488), Alexa Fluor® 546 (sc-33668 AF546), Alexa Fluor® 594 (sc-33668 AF594) or Alexa Fluor® 647 (sc-33668 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-33668 AF680) or Alexa Fluor® 790 (sc-33668 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Mucin 6 (CLH5) is recommended for detection of Mucin 6 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

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.

Positive Controls: U-698-M whole cell lysate: sc-364799.