SANTA CRUZ BIOTECHNOLOGY, INC.

HMW-Guanylin (MAK-L-G-11): sc-59559

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The family of Guanylin regulatory peptides, including Guanylin and Uroguanylin, are strongly expressed in intestinal mucosa and regulate intestinal fluid secretion during digestion. Guanylins are also involved in acid neutralization and the regulation of membrane-bound Guanylate cyclase signaling molecules. Guanylin and Uroguanylin are secreted primarily in the stomach, intestine and colon. Guanylin is also detected in plasma. Guanylin is an endogenous activator of intestinal guanylate cyclase. It stimulates intestinal guanylate cyclase through the same receptor binding region as the heat-stable enterotoxins. Gut enterochromaffin cells synthesize Guanylin to be a prohormone of 115 amino acids which is then is processed to the molecular form of 94 amino acids. This form is found circulating in the blood.

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: GUCA2A (human) mapping to 1p34.2.

SOURCE

HMW-Guanylin (MAK-L-G-11) is a mouse monoclonal antibody raised against amino acids 78-94 of HMW-Guanylin of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

HMW-Guanylin (MAK-L-G-11) is recommended for detection of HMW-Guanylin of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for HMW-Guanylin siRNA (h): sc-45332, HMW-Guanylin shRNA Plasmid (h): sc-45332-SH and HMW-Guanylin shRNA (h) Lentiviral Particles: sc-45332-V.

Molecular Weight of HMW-Guanylin: 13 kDa.

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.