



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Guanylin

Guanylin is a 15 amino acid polypeptide that is secreted by goblet cells in the colon. It acts as an agonist of the guanylyl cyclase receptor GC-C and regulates electrolyte and water transport in intestinal and renal epithelia. Upon receptor binding, guanylin increases the intracellular concentration of cGMP, induces chloride secretion and decreases intestinal fluid absorption, ultimately causing diarrhoea. The peptide stimulates the enzyme through the same receptor binding region as the heat-stable enterotoxins.

This antibody was generated by immunization of rabbits with Guanylin coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4599 (Lot 031691)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Rat
Quantity:	400µg
Format:	Protein A affinity purified from antiserum, lyophilized. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative.
	Reconstitute by adding 0.2ml of distilled water.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Protein database:	<u>rat-P28902</u>
Cross-Reactivity:	

PEPTIDE	%
Guanylin (rat)	100
Galanin (human)	0
Gastrin I (human)	0
Glucagon (1-29) (human, bovine, porcine)	0
Insulin (human)	0
rec IGF-1 (human)	0
Met-Enkephalin	0

Cross-Reactivity:

PEPTIDE	%
PHM-27 (human)	0
Substance P	0
VIP (human, bovine, porcine, rat)	0
NPY (porcine)	0
ANF (1-28) (human)	0
Endothelin-1 (human, dog, porcine, rat, mouse, bovine)	0
Amylin (human)	0
PACAP-38 (ovine, human, rat)	0

Applications:

Tested in ELISA against Guanylin and in immunohistochemistry (IHC). Other applications like FACS and Western blot may work as well.

Approximate working dilution for IHC:

Paraffin sections: (1:800); pretreatment with Proteinase K for antigen retrieval is recommended.

Optimal dilutions should be determined by the end user.

Please see **www.bma.ch** for protocols and general information

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.