



Rabbit Anti-Guanylin antibody

SL11621R

Product Name:	Guanylin
Chinese Name:	鸟苷酸环化酶激活蛋白1抗体
Alias:	GapI; GCAP-I; Guanylate cyclase activating protein 1; Guanylate cyclase activator 2A (guanylin 2 intestinal heat-stable); Guanylate cyclase activator 2A; Guanylate cyclase-activating protein 1; Guanylate cyclase-activating protein I; Guanylin; GUC2A_HUMAN; GUCA 2; GUCA2; GUCA2A; STARA.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	10kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Guanylin:22-115/115
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 processed to the molecular form of 94 amino acids. This 10kDa form is found circulating in the blood.

Function:

Endogenous activator of intestinal guanylate cyclase. It stimulates this enzyme through the same receptor binding region as the heat-stable enterotoxins.

Subcellular Location:

Secreted.

Tissue Specificity:

Highly expressed in ileum and colon. Found in plasma.

Similarity:

Belongs to the guanylin family.

SWISS:

Q02747

Gene ID:

2980

Database links:

[Entrez Gene: 2980](#)Human

[Entrez Gene: 14915](#)Mouse

[Entrez Gene: 25656](#)Rat

[Omim: 139392](#)Human

[SwissProt: Q02747](#)Human

[SwissProt: P33680](#)Mouse

[SwissProt: P28902](#)Rat

[Unigene: 778](#)Human

[Unigene: 2614](#)Mouse

[Unigene: 11388](#)Rat

Important Note:

	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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