

For Research Use Only

REG3G Polyclonal antibody, PBS Only

Catalog Number: 33895-1-PBS



Basic Information

Catalog Number: 33895-1-PBS	GenBank Accession Number: BC103854	Purification Method: Antigen affinity Purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 130120	
Source: Rabbit	UNIPROT ID: Q6UW15	
Isotype: IgG	Full Name: regenerating islet-derived 3 gamma	
Immunogen Catalog Number: AG35686	Calculated MW: 19 kDa	
	Observed MW: 18 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse

Background Information

REG3G (Regenerating Islet-Derived 3 Gamma) is a small intestinal C-type lectin-like antimicrobial peptide mainly secreted by Paneth cells. First identified in regenerating pancreas, it is now recognized as a key defender of the gut barrier: it kills Gram-positive bacteria, limits bacterial contact with the epithelium, and thus helps prevent systemic inflammation and metabolic disease. Beyond its antimicrobial role, REG3G acts as a gut-derived hormone that links the intestinal microbiome to host metabolism. Its expression is boosted by dietary fiber, beneficial bacteria, interleukin-22 (IL-22) and bariatric surgery, and it reciprocally improves glucose control, reduces hepatic steatosis, accelerates wound healing and protects pancreatic β -cells by activating the JAK2/STAT3 pathway. Conversely, chronic alcohol intake or dysbiosis lowers REG3G levels, weakening the gut barrier and promoting alcoholic liver disease.

Storage

Storage:
Store at -80°C .

Storage Buffer:
PBS only, pH7.3

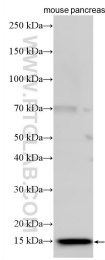
For technical support and original validation data for this product please contact:

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33895-1-AP (REG3G antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 33895-1-PBS in a different storage buffer formulation.