

REG3G Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8603b**Specification**

REG3G Antibody - Product Information

Application	WB, IHC-P,E
Primary Accession	O6UW15
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,k
Calculated MW	19330

REG3G Antibody - Additional Information**Gene ID** 130120**Other Names**

Regenerating islet-derived protein 3-gamma, REG-3-gamma, Pancreatitis-associated protein 1B, PAP-1B, Pancreatitis-associated protein 1B, PAP 1B, Regenerating islet-derived protein III-gamma, REG III, Reg III-gamma, Regenerating islet-derived protein 3-gamma 16.5 kDa form, Regenerating islet-derived protein 3-gamma 15 kDa form, REG3G, PAP1B

Target/Specificity

This REG3G antibody is generated from a mouse immunized with a recombinant protein of human REG3G.

Dilution

WB~~1:1000

IHC-P~~1:25

E~~Use at an assay dependent concentration.

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

REG3G Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

REG3G Antibody - Protein Information**Name** REG3G ([HGNC:29595](#))

Synonyms PAP1B

Function Bactericidal C-type lectin which acts exclusively against Gram-positive bacteria and mediates bacterial killing by binding to surface-exposed carbohydrate moieties of peptidoglycan. Restricts bacterial colonization of the intestinal epithelial surface and consequently limits activation of adaptive immune responses by the microbiota.

Cellular Location

Secreted {ECO:0000250|UniProtKB:P42854}. Cytoplasm {ECO:0000250|UniProtKB:P42854}

Tissue Location

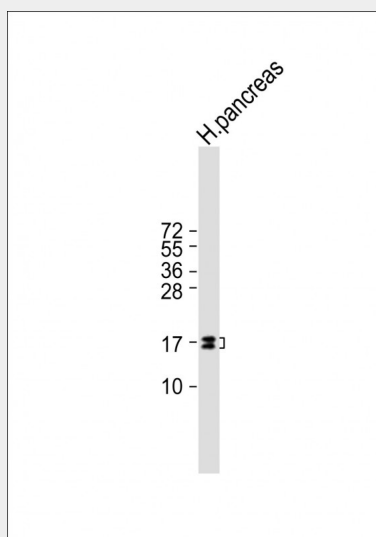
Predominantly expressed in pancreas, where it may be restricted to exocrine pancreas. Moderate expression levels in testis and weak in heart, kidney and placenta

REG3G Antibody - Protocols

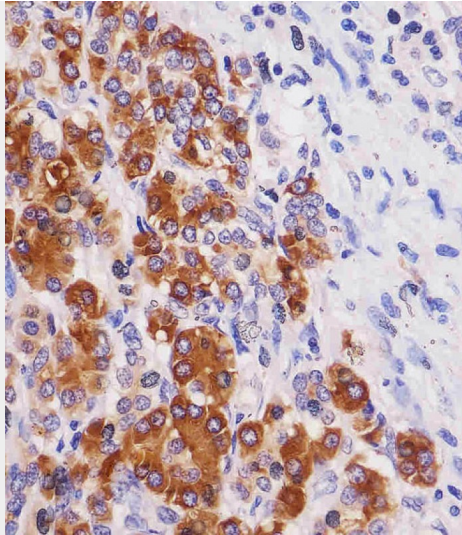
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

REG3G Antibody - Images



Anti-REG3G Antibody at 1:1000 dilution + Human pancreas lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 19 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AM8603b staining REG3G in human pancreas tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

REG3G Antibody - Background

Bactericidal C-type lectin which acts exclusively against Gram-positive bacteria and mediates bacterial killing by binding to surface-exposed carbohydrate moieties of peptidoglycan. Restricts bacterial colonization of the intestinal epithelial surface and consequently limits activation of adaptive immune responses by the microbiota. The uncleaved form has bacteriostatic activity, whereas the cleaved form has bactericidal activity against *L.monocytogenes* and methicillin-resistant *S.aureus*. Regulates keratinocyte proliferation and differentiation after skin injury.

REG3G Antibody - References

Nata K., et al. *Gene* 340:161-170(2004).
Laurine E., et al. *Biochim. Biophys. Acta* 1727:177-187(2005).
Clark H.F., et al. *Genome Res.* 13:2265-2270(2003).
Halleck A., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. *Nat. Genet.* 36:40-45(2004).