

# Anti-REG4 Antibody

Catalog # AP60204

## Product Information

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|-------------------|------------------------|
| Application       | WB, IHC, IF/IC         |
| Primary Accession | <a href="#">Q9BYZ8</a> |
| Reactivity        | Human, Mouse, Rat, Pig |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 18230                  |

## Additional Information

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 83998                                                                                                                                                        |
| Other Names        | GISP; RELP; Regenerating islet-derived protein 4; REG-4; Gastrointestinal secretory protein; REG-like protein; Regenerating islet-derived protein IV; Reg IV |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human REG4. The exact sequence is proprietary.                          |
| Dilution           | WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IF/IC~~N/A                                                        |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                                    |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                                                    |

## Protein Information

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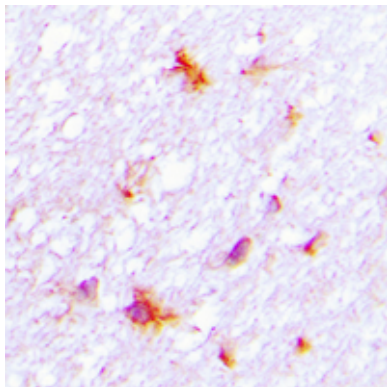
|                   |                                                                                                                                                                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | REG4                                                                                                                                                                                                                                                                                                     |
| Synonyms          | GISP, RELP                                                                                                                                                                                                                                                                                               |
| Function          | Calcium-independent lectin displaying mannose-binding specificity and able to maintain carbohydrate recognition activity in an acidic environment. May be involved in inflammatory and metaplastic responses of the gastrointestinal epithelium.                                                         |
| Cellular Location | Secreted.                                                                                                                                                                                                                                                                                                |
| Tissue Location   | Highly expressed in the gastrointestinal tract including the duodenum, jejunum, ileum, ileocecum, appendix, descending colon, pancreas and small intestine. Weakly expressed in normal colon and stomach. Strongly expressed in most colorectal tumors than in normal colon. Preferentially expressed in |

mucinous tumors and in some cases neuro-endocrine tumors. Expressed in mucus-secreting cells and enterocyte-like cells. In small intestine expressed at the basal perinuclear zone of goblet cells.

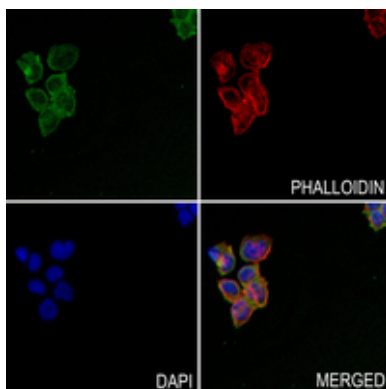
## Images



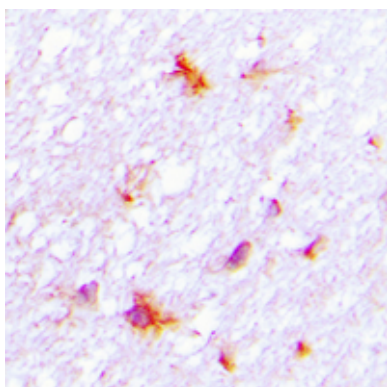
Western blot analysis of REG4 expression in mouse pancreas (A) whole cell lysates. (Predicted band size: 18 kD; Observed band size: 18 kD)



Immunohistochemical analysis of REG4 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of REG4 staining in MDAMB231 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Immunohistochemical analysis of REG4 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.