



# Rabbit Anti-Human REG1B monoclonal antibody, clone S214 (CABT-ZB976)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                           |                                                                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>        | It reacts with Human REG1B                                                                                                                                                                 |
| <b>Target</b>             | REG1B                                                                                                                                                                                      |
| <b>Immunogen</b>          | Recombinant Human REG1B protein                                                                                                                                                            |
| <b>Isotype</b>            | IgG                                                                                                                                                                                        |
| <b>Source/Host</b>        | Rabbit                                                                                                                                                                                     |
| <b>Species Reactivity</b> | Human                                                                                                                                                                                      |
| <b>Clone</b>              | S214                                                                                                                                                                                       |
| <b>Purification</b>       | Protein A purified                                                                                                                                                                         |
| <b>Conjugate</b>          | Unconjugated                                                                                                                                                                               |
| <b>Applications</b>       | ELISA, ELISA(det)<br>We recommend the following for sandwich ELISA (Capture - Detection):<br>CABT-ZB629 - CABT-ZB976<br>This antibody will detect REG1B in antibody pair set. [ABPR-ZB208] |
| <b>Preparation</b>        | This antibody was obtained from a rabbit immunized with purified, recombinant Human REG1B.                                                                                                 |
| <b>Format</b>             | Purified, Liquid                                                                                                                                                                           |
| <b>Concentration</b>      | Lot specific                                                                                                                                                                               |
| <b>Size</b>               | 50 µL, 100 µL, 1 mL                                                                                                                                                                        |

|                     |                                                                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Buffer</b>       | PBS                                                                                                                                                                                                                                                |
| <b>Preservative</b> | None                                                                                                                                                                                                                                               |
| <b>Storage</b>      | This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles. |
| <b>Ship</b>         | Wet ice                                                                                                                                                                                                                                            |

## BACKGROUND

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Introduction</b> | Regenerating gene (Reg), first isolated from a regenerating islet cDNA library, encodes a secretory protein with a growth stimulating effect on pancreatic beta cells, and could be associated with fibrocalculous pancreatopathy. Reg and Reg-related genes which were expressed in various organs have been revealed to constitute a multigene family, the Reg family consisting of four subtypes (types I, II, III, IV) and are involved in cancers and neurodegenerative diseases. Regenerating islet-derived 1 beta (REG1B), also known as Lithostathine-1-beta and Pancreatic stone protein 2 (PSPS2), is a types I Reg protein and contains one typical C-type lectin domain. REG1B is a 166-amino acid protein that has 22 amino acid substitutions in comparison with the previously isolated human REG1A, and it is was expressed only in pancreas. REG1B is normally found in the exocrine pancreas, whereas in other tissues it appears either only under pathological conditions, such as Alzheimer's disease (brain), cancer (colon), or during regeneration such as neuronal sprouting in brain and pancreas regeneration. REG1B might act as an inhibitor of spontaneous calcium carbonate precipitation. The REG1A and REG1B gene and proteins could play different roles in the pancreas. |
| <b>Keywords</b>     | REG1B; regenerating islet-derived 1 beta; regenerating islet derived 1 beta (pancreatic stone protein, pancreatic thread protein); lithostathine-1-beta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## GENE INFORMATION

|                       |                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | REG1B; regenerating islet-derived 1 beta; regenerating islet derived 1 beta (pancreatic stone protein, pancreatic thread protein); lithostathine-1-beta; lithostathine 1 beta; PSPS2; REGH; REGI BETA; REGL; secretory pancreatic stone protein 2; Lithostathin |
| <b>Entrez Gene ID</b> | <a href="#">5968</a>                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>     | <a href="#">P48304</a>                                                                                                                                                                                                                                          |