# Mouse Regenerating islet-derived protein 3-gamma (REG3G) ELISA Kit

Catalog No: #EK7548

Package Size: #EK7548-1 48T #EK7548-2 96T

Orders: order@signalwayantibody.com
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## Description

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| Product Name | Mouse Regenerating islet-derived protein 3-gamma (REG3G) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Mouse (Mus musculus) |
| Other Names | MGC118998; MGC118999; MGC119001; PAP1B; PAPIB; REG-III; UNQ429; LPPM429\|PAP IB protein\|regenerating gene III |
| Accession No. | O09049 |
| Uniprot | O09049 |
| GeneID | 19695; |
| Storage | The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C). |

## Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:3.9 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate REG3G in samples. An antibody specific for REG3G has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyREG3G present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for REG3G is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of REG3G bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:REG3G encodes a deduced 175-amino acid protein, with a predicted molecular mass of 16.5 kD after cleavage of a putative 26-amino acid N-terminal signal peptide. Two REG3G splice forms, with identical coding sequences but different 5-prime UTRs, were identified. The REG3G and REG3A proteins share 85% sequence homology. Northern blot analysis and RT-PCR experiments showed that REG3G is strongly expressed in pancreas, moderately in testis, and weakly in heart, kidney, and placenta. Further RT-PCR analysis of pancreas-derived cell lines showed that REG3G expression is limited to exocrine pancreas. Using 3-dimensional protein structural modeling, they showed that although REG3G and REG1A share similar structural features, they display distinctive surface charge distributions.

Note: This product is for in vitro research use only