

## Recombinant Rat Gabrb2 Protein, His-tagged

**Cat. No.** Gabrb2-1549R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant Rat Gabrb2 Protein (Ser26-Arg231) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Ser26-Arg231                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Enables GABA-A receptor activity; chloride channel activity; and inhibitory extracellular ligand-gated ion channel activity. Contributes to GABA receptor activity. Involved in GABAergic synaptic transmission; cellular response to histamine; and chloride transmembrane transport. Located in cytosol and membrane. Is integral component of plasma membrane. Part of GABA-A receptor complex. Human ortholog(s) of this gene implicated in autistic disorder and developmental and epileptic encephalopathy 92. Orthologous to human GABRB2 (gamma-aminobutyric acid type A receptor subunit beta2). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 27.4 kDa<br>Accurate Molecular Mass: 30 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Gabrb2 gamma-aminobutyric acid (GABA) A receptor, beta 2 [ Rattus norvegicus (Norway rat) ]                                                                                                                                                                                                               |
| <b>Official Symbol</b> | Gabrb2                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | GABRB2; gamma-aminobutyric acid (GABA) A receptor, beta 2; gamma-aminobutyric acid receptor subunit beta-2; GABA(A) receptor subunit beta-2; Gamma-aminobutyric acid receptor beta 2; gamma-aminobutyric acid receptor, subunit beta 2; gamma-aminobutyric acid (GABA-A) receptor, subunit beta 2; GARB2; |
| <b>Gene ID</b>         | 25451                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_012957                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_037089                                                                                                                                                                                                                                                                                                 |

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**UniProt ID****P63138** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA