

## Rabbit Glutamate decarboxylase alpha Polyclonal Antibody | anti-gadA antibody

Rabbit anti-Escherichia coli Glutamate decarboxylase alpha polyclonal Antibody

|                               |                       |                                       |                              |
|-------------------------------|-----------------------|---------------------------------------|------------------------------|
| CATALOG #<br><b>AAA118001</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Escherichia coli</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|-----------------------|---------------------------------------|------------------------------|

### PRODUCT SYNONYMS

Glutamate decarboxylase alpha; Polyclonal Antibody; Rabbit anti-Escherichia coli Glutamate decarboxylase alpha polyclonal Antibody; gadS; b3517; JW3485; anti-gadA antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                         |
| Reactivity                                     | Escherichia coli                                                                                               |
| Clonality                                      | Polyclonal                                                                                                     |
| Isotype                                        | IgG                                                                                                            |
| Purity/Purification                            | Caprylic Acid Ammonium Sulfate Precipitation Purified                                                          |
| Sequence Length                                | 466                                                                                                            |
| Applicable Applications for anti-gadA antibody | ELISA                                                                                                          |
| Storage Buffer                                 | Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol, 0.01M PBS, PH 7.4                               |
| Conjugate                                      | Non-conjugated                                                                                                 |
| Immunogen                                      | Recombinant Escherichia coli Glutamate decarboxylase alpha protein                                             |
| Preparation and Storage                        | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze. |

### ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-gadA antibody | Converts glutamate to gamma-aminobutyrate (GABA), consuming one intracellular proton in the reaction. The gad system helps to maintain a near-neutral intracellular pH when cells are exposed to extremely acidic conditions. The ability to survive transit through the acidic conditions of the stomach is essential for successful colonization of the mammalian host by commensal and pathogenic bacteria. |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### NCBI AND UNIPROT INFORMATION

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| NCBI GI #                 | <a href="#">16131389</a>                                                 |
| NCBI GeneID               | <a href="#">948027</a>                                                   |
| NCBI Accession #          | <a href="#">NP_417974.1</a>                                              |
| NCBI GenBank Nucleotide # | <a href="#">NC_000913.3</a>                                              |
| UniProt Accession #       | <a href="#">P69908</a> ; <a href="#">P80063</a> ; <a href="#">Q2M7H9</a> |
| Molecular Weight          | 52,685 Da                                                                |
| NCBI Official Full Name   | glutamate decarboxylase A, PLP-dependent                                 |

|                               |                                          |
|-------------------------------|------------------------------------------|
| NCBI Official Symbol          | gadA                                     |
| NCBI Official Synonym Symbols | ECK3502; gadS; JW3485                    |
| NCBI Protein Information      | glutamate decarboxylase A, PLP-dependent |
| UniProt Protein Name          | Glutamate decarboxylase alpha            |
| UniProt Gene Name             | <b>gadA</b>                              |
| UniProt Synonym Gene Names    | gadS; GAD-alpha                          |
| UniProt Entry Name            | DCEA_ECOLI                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://www.aaabiotech.com/polyclonal/glutamate-decarboxylase-alpha-antibody-elisa/118001>