

## Rabbit Anti-GST Polyclonal Antibody

Cat. No. CPB-278R    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Source                | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen Description | <p>Genetic engineers have used glutathione S-transferase to create the GST gene fusion system. This system is used to purify and detect proteins of interest. In a GST gene fusion system, the GST sequence is incorporated into an expression vector alongside the gene sequence encoding the protein of interest. Induction of protein expression from the vector's promoter results in expression of a fusion protein: the protein of interest fused to the GST protein. This GST-fusion protein can then be purified from cells via its high affinity for glutathione. GST is commonly used to create fusion proteins. The tag has the size of 220 amino acids (roughly 26 KDa), which, compared to other tags like the myc- or the FLAG-tag, is quite big. However, many commercially-available sources of GST-tagged plasmids include a thrombin domain for cleavage of the GST tag during protein purification.</p> |
| Immunogen             | Recombinant GST protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Ig Type               | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Formulation           | 0.2µm filtered solution in PBS with 5% trehalose                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Preparation           | Produced in rabbits immunized with purified, E.coli-derived, recombinant Glutathione S-transferase (GST). GST specific IgG was purified by GST affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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| <b>Specificity</b>  | GST                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Direct ELISA</b> | This antibody can be used at 0.5-1.0µg/mL with the appropriate secondary reagents to detect GST. The detection limit for GST is 0.00245ng/well.                                                                                                                                                                                                                                                |
| <b>Storage</b>      | This antibody can be stored at 2°C-8°C for 1 month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -70°C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles. |

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