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# Product datasheet for TA396650S

## glnA Goat Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | ELISA, IP, WB |
| **Recommended Dilution:** | **WB**: 1:500 - 1:5,000<br>**ELISA**: 1:5,000 - 1:20,000 |
| **Reactivity:** | Brevibacterium |
| **Host:** | Goat |
| **Clonality:** | Polyclonal |
| **Immunogen:** | Glutamine Synthetase [native from brevibacterium species] |
| **Specificity:** | Anti-Glutamine Synthetase antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified Glutamine Synthetase [Microbial]. Cross reactivity against Glutamine Synthetase from other sources is unknown. |
| **Formulation:** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Concentration:** | lot specific |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing. |
| **Stability:** | Expiration date is one (1) year from date of receipt. |
| **Database Link:** | Q79VE3 |

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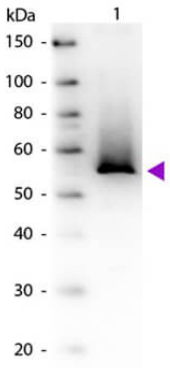
**Background:** Glutamine Synthetase antibody detects microbial GS. Glutamine synthetase (GS)is an enzyme that plays an essential role in the metabolism of nitrogen by catalyzing the condensation of glutamate and ammonia to form glutamine:Glutamate + ATP + NH3 → Glutamine + ADP + phosphate. Glutamine Synthetase uses ammonia produced by nitrate reduction, amino acid degradation, and photorespiration.[4] The amide group of glutamate is a nitrogen source for the synthesis of glutamine pathway metabolites. Anti-Glutamine Synthetase antibody is ideal for investigators involved in glucose energy metabolism research.

**Synonyms:** goat anti-Glutamine Synthetase Antibody, Glutamine synthetase, GS

**Note:** Anti-Glutamine Synthetase antibody has been tested by western blot and is suitable to be assayed against 1.0 µg of Glutamine Synthetase [Microbial] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:16,000 of the reconstitution concentration is suggested for this product. It is suitable for Immunohistochemistry also. Specific conditions for reactivity should be optimized by the end user.

## Product images:




Western blot of Goat Anti-Glutamine Synthetase primary antibody. Lane 1: Glutamine Synthetase. Load: 50 ng per lane. Primary antibody: Glutamine Synthetase antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase goat secondary antibody (6/n 605-703-125) at 1:40,000 for 30 min at RT. Blocking: MB-070 for 30 min at RT. Observed/Predicted size: 54 kDa, 54 kDa for Glutamine Synthetase (Brevibacterium). Other band(s): None.