

Anti-GLUTAMINE SYNTHETASE (GOAT) Antibody
Glutamine Synthetase Antibody
Catalog # ASR3946**Specification****Anti-GLUTAMINE SYNTHETASE (GOAT) Antibody - Product Information**

Host	Goat
Conjugate	Unconjugated
Target Species	Microbial
Clonality	Polyclonal
Application	WB, E, IP, I, LCI
Application 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.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Glutamine Synthetase [native from <i>brevibacterium</i> species]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Anti-GLUTAMINE SYNTHETASE (GOAT) Antibody - Additional Information**Other Names**
3345165**Purity**

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.

Storage Condition

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-GLUTAMINE SYNTHETASE (GOAT) Antibody - Protein Information**Anti-GLUTAMINE SYNTHETASE (GOAT) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-GLUTAMINE SYNTHETASE (GOAT) Antibody - Images**Anti-GLUTAMINE SYNTHETASE (GOAT) Antibody - 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: $\text{Glutamate} + \text{ATP} + \text{NH}_3 \rightarrow \text{Glutamine} + \text{ADP} + \text{phosphate}$. 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.