

Datasheet for 200-4358-0100**Glutamate Dehydrogenase Antibody Peroxidase Conjugated****Overview**

Description:	Anti-Glutamate Dehydrogenase (Bovine Liver) (RABBIT) Antibody Peroxidase Conjugated - 200-4358-0100
Item No.:	200-4358-0100
Size:	100 µg
Reactivity:	Bovine
Host Species:	Rabbit

Product Details

Background:	Glutamate dehydrogenase (GLDH) is an enzyme, present in most microbes and the mitochondria of eukaryotes, as are some of the other enzymes required for urea synthesis, that converts glutamate to α -ketoglutarate, and vice versa. GLDH can be measured in a medical laboratory to evaluate the liver function. Elevated blood serum GLDH levels indicate liver damage and GLDH plays an important role in the differential diagnosis of liver disease, especially in combination with aminotransferases. GLDH is localized in mitochondria, therefore practically none is liberated in generalized inflammatory diseases of the liver such as viral hepatitis.
Synonyms:	rabbit anti-Glutamate Dehydrogenase Antibody Peroxidase Conjugation, HRP Conjugated rabbit anti-Glutamate Dehydrogenase Antibody, Glutamate dehydrogenase 1 mitochondrial, GDH 1
Host Species:	Rabbit
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GLUD1
Reactivity:	Bovine
Immunogen Type:	Native Protein
Immunogen:	Glutamate Dehydrogenase [Bovine Liver]

Purity/Specificity: Glutamate dehydrogenase 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-Peroxidase, anti-Rabbit Serum as well as purified and partially purified Glutamate Dehydrogenase [Bovine Liver]. Cross reactivity against Glutamate Dehydrogenase from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P00366](#)
- [NCBI - 32880221](#)
- [GeneID - 281785](#)

Application Details

Application Note: Anti-Glutamate dehydrogenase has been assayed against 1.0 ug of Glutamate Dehydrogenase [Bovine Liver] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

IP: 1:100

WB: 1:250

Formulation

Physical State: Lyophilized

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Reconstitution Volume: 100 µL

Reconstitution Buffer: Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition: Ambient

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.

Expiration: Expiration date is one (1) year from date of receipt.

Disclaimer

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