

AP21407BT-N**Polyclonal Antibody to Glutamate-Oxaloacetate Transaminase - Biotin**

Alternate names:	Aspartate aminotransferase, Glutamate oxaloacetate transaminase 1, Transaminase A
Quantity:	1 ml
Concentration:	10.0 mg/ml
Background:	Glutamate oxaloacetate transaminase is a ubiquitous pyridoxal phosphate-dependent enzyme which exists in both mitochondrial and cytosolic forms. The enzyme plays an important role in amino acid metabolism and in the urea and tricarboxylic acid cycles. The 2 isoenzymes are homodimeric. In liver about 80% of the enzyme activity is mitochondrial in origin, whereas in serum the enzyme activity is largely cytosolic. Although the mitochondrial and soluble forms of GOT are coded by different chromosomes, the 2 show close homology in amino acid sequence and were presumably derived from a common ancestral gene. Serum GOT [with SGPT] levels are usually elevated in states of hepatocellular injury (injury to the liver cells), the highest levels are associated with hepatitis of a viral origin. High levels are also found after myocardial infarction, when SGPT levels are lower.
Uniprot ID:	P00503
NCBI:	NP_999092
GeneID:	396967
Host / Isotype:	Rabbit / IgG
Immunogen:	Glutamate-Oxaloacetate Transaminase isolated and purified from Porcine heart. Freund's complete adjuvant is used in the first step of the immunization procedure.
Format:	State: Lyophilized hyperimmune IgG fraction Purification: Ammonium Sulphate Precipitation and Ion Exchange Chromatography Buffer System: PBS, pH 7.2 without preservatives and foreign proteins Label: Biotin <i>Molar Ratio:</i> Biotin/IgG ~ 5.7 Reconstitution: Restore by adding 1.0 ml of sterile distilled water
Applications:	This product is intended for use in precipitating and non-precipitating antibody-binding assays (such as e.g., ELISA and Western blotting and Immunofluorescence or Histochemical techniques). <u>Recommended Dilutions:</u> Non-precipitating antibody-binding techniques: 1/100-1/1,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Glutamate-Oxaloacetate Transaminase from Porcine heart.

The reagents were evaluated for potency, purity and specificity using most or all of the following techniques: Immunoelectrophoresis, Cross-Immunoelectrophoresis, single Radial Immunodiffusion (Ouchterlony), block titration, ELISA, Immunoblotting and Enzyme Inhibition.

Cross-reactivities against enzymes of other sources may occur but have not been determined.

Species: Pig.

Other species not tested.

Storage:

Store the antibody lyophilized at 2-8°C and reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer.

If a slight precipitation occurs upon storage, this should be removed by centrifugation.

Shelf life: one year from despatch.