

CERTIFICATE OF ANALYSIS

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Catalog #: K90040C **Lot #:** 1E14920

Description: Sheep anti Antithrombin III
Sheep Antibody to Human Antithrombin III

Specificity: Antithrombin III (ATH III) is a plasma protein synthesized in the liver. Normal plasma levels are 115-160 mg/L. ATH III consists of a single polypeptide chain and has a molecular weight of 58 kDa. ATH III is a serine protease inhibitor and through this action regulates blood coagulation. ATH III also has a heparin binding site and in the presence of heparin the inhibition of thrombin, factors IXa, Xa and XIa is enhanced 1000-fold. Gives a single arc when tested by IEP against human plasma. Identity is confirmed by double diffusion (Ouchterlony) against human plasma and a known anti-human antithrombin III. The cross reactivity of this product against the sera of the species listed below has been assessed by double diffusion using 10 µL of antisera against 5 µL of species sera. These results are intended as a guideline only. It is possible that cross-reactivity against species listed as negative may be observed when using different test conditions or techniques.

CAT	+	CHICKEN	-	COW	-	DOG	+	G.PIG	-	GOAT	-
HORSE	+	HUMAN	+	MOUSE	+	PIG	-	RABBIT	-	RAT	+

Host Animal: Sheep

Immunogen: Human antithrombin III purified from plasma, shown to be homogeneous by SDS-PAGE.

Format: Purified, Liquid

Purification: Antiserum is delipidated and if necessary adsorbed to monospecificity by use of solid-phase adsorbants. Following adsorption an immunoglobulin fraction is produced by ion-exchange chromatography (DEAE). Monospecificity is confirmed by Immuno-electrophoresis (IEP) and double diffusion. Product is 0.2 µm filtered.

Concentration: 14.7 mg/mL (OD280 nm, E^{1%} = 14.5)

Buffer: 1 mL Glycine Buffered Saline, pH 7.4

Preservative: 0.099% Sodium Azide, 0.1% EACA, 0.01% Benzamidine, 1 mM EDTA.

Applications: Suitable for use in a variety of gel techniques including Radial Immunodiffusion (RID), Double Diffusion and Immuno-electrophoresis. The use of 3% PEG 6000 with 1.2% agarose in a suitable buffer (such as TBE or Tris-Barbital pH >8.2) is recommended. Suitability for use in Nephelometry, Enzyme-Linked Immunosorbent Assays, Immunohistochemistry and Western Blot has not been assessed but use in such assays should not necessarily be excluded. This product can also be conjugated to fluorochromes, enzymes, etc.

RID: 6 µL antiserum / cm² gel vs. 5 µL neat - 1/10 dilution human plasma.

Double Diffusion: 10 µL antiserum vs. 5 µL plasma.

IEP: 100 µL antiserum vs. 5 µL plasma

Storage: Store at 2–8°C. Slight precipitation can occur upon storage that can be removed by centrifugation and should not affect performance characteristics.

Safety Notes (s): Refer to the appropriate Safety Data Sheet (SDS) for additional information.

Brance Gole

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FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY