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## TECHNICAL INFORMATION

Catalog Number: 55030

### Goat IgG Fraction To Human Alpha-1-Antitrypsin

**DESCRIPTION:** Product is the lyophilized powder of goat IgG fraction to human alpha-1-antitrypsin and buffer salts.

The IgG fraction is prepared from the specific goat antiserum by delipidation, ammonium sulfate fractionation and anion exchange chromatography. The resulting IgG fraction is dialyzed into 0.02M sodium phosphate, 0.14M sodium chloride, pH 7.3, adjusted to standard titer, filtered through a 0.22 µm filter, vialled and lyophilized.

**USES:** This product is suitable for use as a precipitating antibody. It gives sharp precipitin lines in immunoelectrophoresis and immunodiffusion techniques.

This product is suitable for conjugation with enzymes, radiolabels, fluorochromes or other markers, and for attachment to solid supports for use as an immunoadsorbant.

This product is suitable for use as a primary reagent in enzyme immunoassays, fluorescein immunoassays and blot, cell or tissue immunostaining. See **Related Product Ordering Information**.

### SUGGESTED WORKING DILUTIONS:

1:500 - 1:4,000 for Tissue Staining  
1:1,000 - 1:8,000 for Immunoblotting  
1:2,000 - 1:16,000 for Elisa

**It is recommended that each lab obtain their own optimal working dilution for each assay**

**SPECIFICATIONS:** The total protein is measured using the Biuret procedure, with bovine albumin as a standard. Antibody titer is standardized to an in-house standard by equivalence-point precipitation. Each IgG fraction is tested for purity and specificity at a minimum of 40 mg/ml using immunoelectrophoresis. The product is mostly goat IgG; no trace of albumin is detected. It shows reactivity to human alpha-1-antitrypsin; cross-reactivity to other species may exist. Antibody activity to other serum proteins is not present.

**RECONSTITUTION:** Reconstitute product with 5.0 ml of deionized or distilled water. Gentle swirling may be used to speed rehydration. Avoid vigorous shaking of the reconstituted material.

### RELATED PRODUCT ORDERING INFORMATION:

Catalog #	Description	Size
55111	GOAT ANTI-HUMAN ALPHA-1-ANTITRYPSIN	2ML
55236	HRP GOAT ANTI-HUMAN ALPHA-1-ANTITRYPSIN	2ML

**Note:** This product may contain a preservative such as sodium azide, thimerosal or proclin. Please see lot specific chemical credential for preservative information.

[If a titer/working dilution is not given above, please click here to see a general dilution chart for working with antibodies. Please note that the general dilution chart should only be used as a guideline. Each lab should determine their own optimal working dilution.](#)

[Will this antibody work with your application? Please click here to see a general chart of antibody applications. Please note that](#)

any information given above is primary application data. The general applications charts should only be used as a reference.