

Product Datasheet

Alpha-1-Anti-Trypsin Antibody Peroxidase Conjugated (orb344237)

Description	Alpha-1-Trypsin antibody (Peroxidase)
Species/Host	Goat
Reactivity	Human
Conjugation	HRP
Tested Applications	ELISA, IHC, WB
Immunogen	Anti-alpha 1 Anti-Trypsin Antibody was produced by repeated immunizations with native α 1-Anti-Trypsin protein from human plasma.
Preservatives	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Form/Appearance	Lyophilized
Concentration	1.0 mg/mL
Storage	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.
Note	For research use only
Application notes	Anti-Alpha 1 anti-Trypsin Antibody is tested by ELISA and western blot. This product detects a single band of the expected apparent molecular weight (~47 kDa) and for ELISA. Researchers should determine optimal titers for applications that are not stated below.
Isotype	IgG
Clonality	Polyclonal

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Antibody Type Primary Antibody

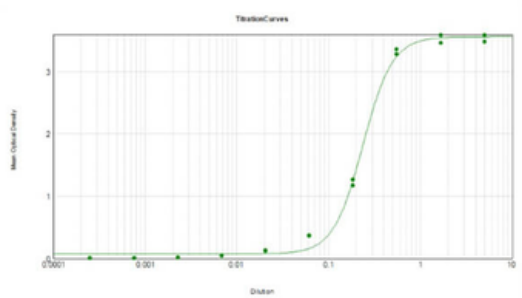
Purity Anti-alpha-1-Anti-Trypsin Antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum as well as purified and partially purified a1-Anti-Trypsin [Human Plasma]. Cross reactivity against a1-Anti-Trypsin from other sources is unknown.

Uniprot ID **P01009**

NCBI **NP_000286.3**

Dilution Range ELISA: 1:1,000 - 1:5,000, IHC: 1:200 - 1:1,000, WB: 1:500 - 1:2,500

Expiration Date 12 months from date of receipt.



ELISA Results of Goat Anti-Alpha-1-Anti-Trypsin Peroxidase Conjugated Antibody. Each well was coated in duplicate with 1.0 µg of Alpha-1-Anti-Trypsin. The starting dilution of antibody was 5 µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using HRP Conjugated Stabilizer, Goat Anti-Alpha-1-Anti-Trypsin Peroxidase Conjugated Antibody and TMB substrate (p/n orb348651).



Western Blot of Goat Anti-ALPHA 1 ANTI TRYPSIN Antibody Lane 1: reduced Alpha-1anti-Trypsin. Lane 2: none. Load: ~1 ug per lane. Primary antibody: Alpha-1-Anti-Trypsin antibody at 1:3000 for overnight at 4°C. Secondary antibody: Dylight 488 conjugated Donkey anti goat secondary antibody at 1:10000 for 1.5 hr at RT. Block: orb348637 buffer overnight at 4°C. Predicted/Observed size: 46.7kDa, ~55kDa for Alpha-1-AntiTrypsin. Other band(s): none.

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Western Blot of Goat-anti-Alpha-1-Anti-Trypsin Antibody. Lane 1: molecular weight. Lane 2: Goat-anti-Alpha-1-Anti-Trypsin (red), Rabbit anti-Transferrin, and Mouse-a-GST. Load: 35 µg per lane under reducing (R) conditions (+4% BME) in albumin depleted human serum with 320 ng of added GST. Primary antibody: Alpha 1 Anti-Trypsin antibody at 1:400 for overnight at 4°C. Secondary antibody: DyLight 649 Donkey anti-Goat IgG (red) secondary antibody at 1:10000 for 30 min at RT in orb348637 30 buffer. Block: 2.5% Blotto, 2.5% BSA, 0.02% Tween over night at 4°C. Predicted/Observed size: 46.7kDa, ~55kDa for Alpha-1-AntiTrypsin. Other band(s): DyLight 488 Donkey anti-Mouse IgG (blue) and DyLight549 Donkey anti-Rabbit IgG (green) secondary antibodies.

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