

Human Serpin A3/α1-Antichymotrypsin Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1295

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Serpin A3/α1-Antichymotrypsin in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse (rm) Serpin A1 is observed, and less than 3% cross-reactivity with recombinant human (rh) Serpin A1, rhSerpin A3N, rhSerpin A4, rhSerpin A5, rhSerpin A9, rhSerpin C1, rhSerpin F2, and rhSerpin F1/PEDF is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Serpin A3/α1-Antichymotrypsin Asn26-Ala423 Accession # P01011	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.	
APPLICATIONS	no should be determined by each laboratory for each applica-	ation. General Protocols are available in the Technical Information section on our website.
riease Note. Opumai dilution	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Human Serpin A3/α1-Antichymotrypsin (Catalog # 1295-PI)
Immunoprecipitation	25 μg/mL	Conditioned cell culture medium spiked with Recombinant Human Serpin A3/ α1-Antichymotrypsin (Catalog # 1295-PI), see our available Western blot detection antibodies
PREPARATION AND ST	TORAGE	
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution.	

BACKGROUND

Serpin A3 is a member of the Serpin superfamily of the serine protease inhibitors (1). It is synthesized primarily in the liver and secreted as one of the most abundant serpins in plasma (2). It is known to inhibit several serine proteases including chymotrypsin, cathepsin G, chymase, kallikrein 3/prostate specific antigen, and unidentified ectoenzymes that process pro-macrophage stimulating protein (1-5). Serpin A3 is a major constituent of the plaques associated with Alzheimer's disease and an inhibitor of amyloid beta peptide degradation (1-6). Deficiency in Serpin A3 activity due to a point mutation (Leu55Pro) is associated with chronic obstructive pulmonary disease (7). Human Serpin A3 is synthesized as a 423 amino acid precursor (8, 9). The mature protein is secreted and has two forms that differ in their N-termini (10). One of the forms starting at Asn26 was expressed and purified.

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

References:

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