



Goat anti Human α2 Antiplasmin (α2 AP) polyclonal antibody [HRP] (CABT-L497)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target a2-Antiplasmin Immunogen Human α2 antiplasmin purified from plasma. Isotype IgG Source/Host Goat Species Reactivity Human Conjugate HRP Applications IEP, ELISA Format Liquid Size 200 μg Buffer A buffered stabilizer solution containing 50% (v/v) glycerol. Preservative None Storage Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase activity.	Specificity	Prior to conjugation this antibody was specific for human $\alpha 2$ AP as demonstrated by immunoelectrophoresis and ELISA.
Isotype IgG Source/Host Goat Species Reactivity Human Conjugate HRP Applications IEP, ELISA Format Liquid Size 200 μg Buffer A buffered stabilizer solution containing 50% (v/v) glycerol. Preservative None Storage Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase	Target	a2-Antiplasmin
Source/Host Goat Species Reactivity Human Conjugate HRP Applications IEP, ELISA Format Liquid Size 200 μg Buffer A buffered stabilizer solution containing 50% (v/v) glycerol. Preservative None Storage Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase	Immunogen	Human α2 antiplasmin purified from plasma.
Species Reactivity Human Conjugate HRP Applications IEP, ELISA Format Liquid Size 200 μg Buffer A buffered stabilizer solution containing 50% (v/v) glycerol. Preservative None Storage Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase	Isotype	IgG
Conjugate HRP Applications IEP, ELISA Format Liquid Size 200 μg Buffer A buffered stabilizer solution containing 50% (v/v) glycerol. Preservative None Storage Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase	Source/Host	Goat
Applications IEP, ELISA Format Liquid Size 200 μg Buffer A buffered stabilizer solution containing 50% (v/v) glycerol. Preservative None Storage Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase	Species Reactivity	Human
Format Liquid Size 200 μg Buffer A buffered stabilizer solution containing 50% (v/v) glycerol. Preservative None Storage Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase	Conjugate	HRP
Size 200 μg Buffer A buffered stabilizer solution containing 50% (v/v) glycerol. Preservative None Storage Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase	Applications	IEP, ELISA
Buffer A buffered stabilizer solution containing 50% (v/v) glycerol. Preservative None Storage Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase	Format	Liquid
Preservative None Storage Store between -10 and -20°C. Product will become viscous but will not freeze. Avoid storage frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase	Size	200 μg
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frost-free freezers. Keep vial tightly capped. Allow product to warm to room temperature and gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase	Preservative	None
	Storage	gently mix before use. Avoid exposure to sodium azide as this is an inhibitor of peroxidase

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BACKGROUND

Introduction

Alpha 2-Antiplasmin (α 2AP), also known as Alpha 2-Plasmin Inhibitor (α 2PI), is a member of the SERPIN family of proteinase inhibitors and the primary inhibitor of the enzyme plasmin in blood. It is produced in the liver and circulates in plasma at ~70 µg/ml (~1 µM). α 2AP is a single chain molecule with a mass of 67 kDa as determined by SDS-PAGE. The primary target enzyme for α 2AP is plasmin, but α 2AP also acts as secondary or "backup"inhibitor of activated F.XI, activated Protein C and trypsin. Inhibition of these enzymes by α 2AP occurs through proteolytic cleavage after Arg364 with subsequent rapid formation of a stable, inactive 1:1 enzyme- α 2AP complex. α 2AP also acts to regulate fibrinolysis by binding to the lysine binding sites on plasminogen thus competitively inhibiting plasminogen binding to fibrin. About 30% of α 2AP present in plasma is partially degraded and lacks a peptide in the carboxyl region that contains the plasminogen-binding site. This form of α 2AP (~65 kDa) has a reduced rate of plasmin inhibition and has been referred to as the "slow form"of α 2AP. During fibrin formation, a portion of circulating α 2AP is cross-linked to the α -chain of fibrin by activated factor XIII, and this linking of plasmin inhibitor to the plasmin substrate provides an additional measure of protection to the fibrin clot from proteolysis by plasmin.

Keywords

SERPINF2; serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 2;AAP;API;PLI;A2AP;ALPHA-2-PI;alpha-2-antiplasmin;serpin F2;alpha-2-AP

GENE INFORMATION

Entrez Gene ID 5345

UniProt ID P08697