

# Rabbit Monoclonal Antibody to Human Serine Peptidase Inhibitor, Clade F, Member 2

**Cat. No.** CAB11603RH    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**    Rabbit Monoclonal Antibody to Human Serine Peptidase Inhibitor, Clade F, Member 2

**Species**    Human

**Source**    Rabbit

**Antigen Description**    SerpinF2, also known as alpha-2 antiplasmin (alpha-2 AP), is a member of the Serpin superfamily. SerpinF2 is the principal physiological inhibitor of serine protease plasmin, and as well as, an efficient inhibitor of trypsin and chymotrypsin. This protease is produced mainly by liver and kidney, and also expressed at moderate level in other tissues such as muscle, intestine, central nervous system and placenta. Alpha-2 AP is an unusual serpin in that it contains extensive N- and C-terminal sequences flanking the serpin domain. The N-terminal sequence is crosslinked to fibrin by factor XIIIa, whereas the C-terminal region mediates the initial interaction with plasmin. Alpha-2 AP plays the dominant role in inhibiting both plasma clot lysis and thrombus lysis, and accordingly, the deficiency of Alpha-2 antiplasmin in humans results in uncontrolled fibrinolysis and a bleeding disorder.

**Specificity**    Human SerpinF2. No cross-reactivity in ELISA with Human SERPINA1; Human SERPINA5; Mouse SERPIND1; Mouse SERPINF1; Mouse SERPINF2; Human cell lysate (293 cell line)

**Immunogen**    Recombinant Human SerpinF2 Protein

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<b>Isotype</b>	Rabbit IgG
<b>Clone</b>	A002
<b>Applications</b>	Western blot; ELISA
<b>Dilution</b>	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human SERPINF2 in WB. Direct ELISA: This antibody can be used at 0.1-0.2 µg/mL with the appropriate secondary reagents to detect Human SERPINF2. The detection limit for Human SERPINF2 is approximately 0.0049 ng/well.
<b>Preparation</b>	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant Human SerpinF2
<b>Format</b>	0.2 µm filtered solution in PBS with 5% trehalose
<b>Storage</b>	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	SERPINF2 serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 2 [ Homo sapiens ]
<b>Official Symbol</b>	SERPINF2
<b>Synonyms</b>	SERPINF2; serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment

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epithelium derived factor), member 2; PLI,serine (or cysteine) proteinase inhibitor, clade F (alpha 2 antiplasmin, pigment epithelium derived factor), member 2; alpha-2-antiplasmin; A2AP; AAP; alpha 2 antiplasmin; ALPHA 2 PI; alpha 2 plasmin inhibitor; API; serpin F2; alpha-2-AP; alpha-2-plasmin inhibitor; serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 2; PLI; ALPHA-2-PI;

**Gene ID** [5345](#)

**mRNA Refseq** [NM\\_000934](#)

**Protein Refseq** [NP\\_000925](#)

**MIM** [613168](#)

**UniProt ID** [P08697](#)


**Chromosome Location** 17pter-p12

**Pathway** Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Dissolution of Fibrin Clot, organism-specific biosystem; Hemostasis, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem;

**Function** endopeptidase inhibitor activity; eukaryotic cell surface binding; protease binding; protein binding; protein homodimerization activity; serine-type endopeptidase inhibitor activity; serine-type endopeptidase inhibitor activity; serine-type endopeptidase inhibitor activity;

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