



# Anti-SERPINE1 monoclonal antibody, clone 353927 (DCABY-4032)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	The human serpin superfamily consists of at least 35 members that target not only serine proteases, but also selected cysteine proteases and non-protease proteins. Serpins bind the protease active site resulting in a major conformational rearrangement that traps the enzyme in a covalent acyl-enzyme intermediate. As protease inhibitors, serpins have an array of functions including regulating blood clotting, the complement pathway, extracellular matrix remodeling, and cell motility. They are also involved in activities that extend beyond their ability to inhibit proteases. For instance, they may also regulate blood pressure, angiogenesis, or act as storage/transport proteins.
<b>Specificity</b>	Detects human Serpin E1 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human Serpin A1, A3, A4, A8, C1, F1, F2, I1, I2, recombinant mouse Serpin D1 or E2 is observed.
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Serpin E1/PAI-1. Met1-Pro402 Accession Number P05121
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	353927
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot, ELISA Capture (Matched Pair), Neutralization

<b>Format</b>	Lyophilized
<b>Size</b>	500 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
<b>Preservative</b>	None
<b>Storage</b>	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. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SERPINE1 serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	SERPINE1
<b>Synonyms</b>	SERPINE1; serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; PAI; PAI1; PAI-1; PLANH1; plasminogen activator inhibitor 1; serpin E1; endothelial plasminogen activator inhibitor; serine (or cysteine) proteinase i
<b>Entrez Gene ID</b>	<a href="#">5054</a>
<b>Protein Refseq</b>	<a href="#">NP_000593</a>
<b>UniProt ID</b>	<a href="#">A0A024QYT5</a>
<b>Chromosome Location</b>	7q22.1
<b>Pathway</b>	Adipogenesis; BMAL1:CLOCK,NPAS2 activates circadian gene expression; Blood Clotting Cascade; Chagas disease (American trypanosomiasis); Circadian Clock; Complement and Coagulation Cascades; Complement and coagulation cascades; Direct p53 effectors;
<b>Function</b>	protease binding; protein binding; contributes_to receptor binding; serine-type endopeptidase inhibitor activity;