

Rabbit anti-Human SERPIND1 Polyclonal Antibody | anti-SERPIND1 antibody

Anti-SERPIND1 Antibody Picoband

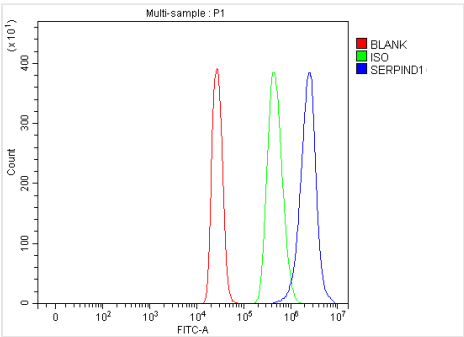
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127240	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

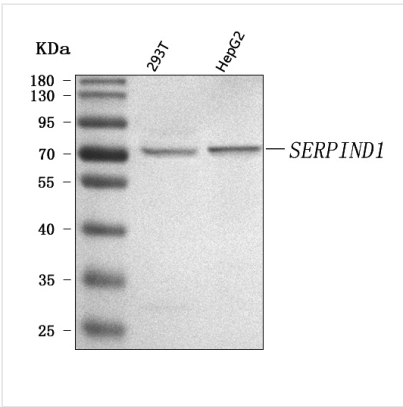
SERPIND1; Polyclonal Antibody; Anti-SERPIND1 Antibody Picoband; thioredoxin 2; Thioredoxin; mitochondrial; MTRX; Mt-Trx; Thioredoxin-2; TXN2; TRX2; anti-SERPIND1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed in adult (at protein level) and fetal tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-SERPIND1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human SERPIND1 recombinant protein (Position: D90-S499).
Subcellular Localization	Mitochondrion
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Important for the control of mitochondrial reactive oxygen species homeostasis, apoptosis regulation and cell viability. Possesses a dithiol-reducing activity.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of 293T cells using anti-SERPIND1 antibody (AAA127240). Overlay histogram showing 293T cells stained with AAA127240 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SERPIND1 Antibody (AAA127240, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of SERPIND1 using anti-SERPIND1 antibody (AAA127240). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human HepG2 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SERPIND1 antigen affinity purified polyclonal antibody (#AAA127240) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SERPIND1 at approximately 70 kDa. The expected band size for SERPIND1 is at 57-60,66-75 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SERPIND1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-SERPIND1 antibody	Primary Antibodies; Hematopoietic Progenitors; Immunology; Innate Immunity; Stem Cells; Surface Molecules
References	1. Aihara, K., Azuma, H., Takamori, N., Kanagawa, Y., Akaike, M., Fujimura, M., Yoshida, T., Hashizume, S., Kato, M., Yamaguchi, H., Kato, S., Ikeda, Y., Arase, T., Kondo, A., Matsumoto, T. Heparin cofactor II is a novel protective factor against carotid atherosclerosis in elderly individuals. Circulation 109: 2761-2765, 2004.2. Andersson, T. R., Larsen, M. L., Abildgaard, U. Low heparin cofactor II associated with abnormal crossed immunoelectrophoresis pattern in two Norwegian families. Thromb. Res. 47: 243-248, 1987.3. Bernardi, F., Legnani, C., Micheletti, F., Lunghi, B., Ferraresi, P., Palareti, G., Biagi, R., Marchetti, G. A heparin cofactor II mutation (HCII Rimini) combined with factor V Leiden or type I protein C deficiency in two unrelated thrombophilic subjects. Thromb. Haemost. 76: 505-509, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73858566
NCBI GeneID	3053
NCBI Accession #	NP_000176.2
NCBI GenBank Nucleotide #	NM_000185.3
UniProt Accession #	P05546; Q6IBZ5; B2RAI1; D3DX34
Molecular Weight	57,071 Da
NCBI Official Full Name	heparin cofactor 2
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade D (heparin cofactor), member 1

NCBI Official Symbol	SERPIND1
NCBI Official Synonym Symbols	HC2; LS2; HCF2; HCII; HLS2; THPH10; D22S673
NCBI Protein Information	heparin cofactor 2; serpin D1; leuserpin 2; protease inhibitor leuserpin-2; serine (or cysteine) proteinase inhibitor, clade D (heparin cofactor), member 1
UniProt Protein Name	Heparin cofactor 2
UniProt Gene Name	SERPIND1
UniProt Synonym Gene Names	HCF2; HC-II; HLS2
UniProt Entry Name	HEP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/serpind1-antibody-flow-cytometry-western-blot-elisa/127240>