

## General PAI-1 functional assay ELISA Kit | SERPINE1 elisa kit

Active mouse PAI-1 functional assay ELISA Kit

CATALOG #  
**AAA37759**

REACTIVITY  
**General**

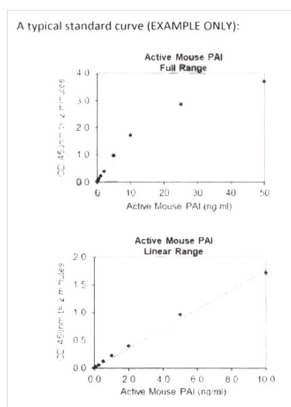
### PRODUCT SYNONYMS

PAI-1 functional assay; Active mouse PAI-1 functional assay ELISA Kit; SERPINE1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | General                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity             | This assay recognizes natural and recombinant active mouse PAI-I. Pooled normal plasma from human, rat, pig, sheep, canine, and guinea pig were assayed and no significant cross-reactivity was observed. Pooled normal plasma from rabbit resulted in significant color development. The following factors were prepared in blocking buffer and assayed for cross-reactivity. |
| Form/Format             | Complete Kit                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence Length         | 402                                                                                                                                                                                                                                                                                                                                                                            |
| Samples                 | Mouse plasma                                                                                                                                                                                                                                                                                                                                                                   |
| Sensitivity             | 0.05 ng/ml                                                                                                                                                                                                                                                                                                                                                                     |
| Intra-assay Precision   | Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.                                                                                                                                                                                                                                                                    |
| Inter-assay Precision   | These studies are currently in progress. Please contact us for more information.                                                                                                                                                                                                                                                                                               |
| Preparation and Storage | Store at 4 degree C. Shelf Life: 12 months from manufacture, see label for expiration date                                                                                                                                                                                                                                                                                     |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SERPINE1 elisa kit | <p>Background: Plasminogen activator inhibitor-1 (PAI-I) is a central regu lator of the blood fibrinolytic system [2]. Clinical studies have indicated that increased PAI-I levels increase the risk for thrombosis, whereas decreased levels may cause recu rrent bleeding [3].</p> <p>Principle of the Assay: Functionally active PAI-I present in plasma reacts with urokinase coated and dried on a microtiter plate. Latent or complexed PAI-1 will not bind to the plate and will not be detected. After appropriate washing steps, polyclonal anti-mouse PAI-I primary antibody binds to the captured enzyme. Excess antibody is washed away and bound polyclonal antibody is then reacted with the secondary antibody conjugated to horseradish peroxidase. TMB substrate is used for color development at 450nm. Color development is directly proportional to the concentration of active PAI-I in the samples. A standard ca libration curve is prepared along with the samples to be measured using dilutions of mouse PAI-1.</p> <p>Intended Uses: Mouse PAI-I activity assay is intended for the quantitative determination of active plasminogen activat or inhibitor type 1 in mouse plasma. For research use only.</p> |
| Product Categories/Family for SERPINE1 elisa kit   | Plasminogen Activator Inhibitor 1 (PAI-1); PAI-1 ELISA Kits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 129577                                                                                                                                                                                                                                                                                                                                                        |
| NCBI GeneID                      | 18787                                                                                                                                                                                                                                                                                                                                                         |
| UniProt Accession #              | P22777                                                                                                                                                                                                                                                                                                                                                        |
| Molecular Weight                 | 45,170 Da                                                                                                                                                                                                                                                                                                                                                     |
| NCBI Official Full Name          | Plasminogen activator inhibitor 1                                                                                                                                                                                                                                                                                                                             |
| NCBI Official Synonym Full Names | serine (or cysteine) peptidase inhibitor, clade E, member 1                                                                                                                                                                                                                                                                                                   |
| NCBI Official Symbol             | Serpine1                                                                                                                                                                                                                                                                                                                                                      |
| NCBI Official Synonym Symbols    | PAI1; PAI-1; Planh1                                                                                                                                                                                                                                                                                                                                           |
| NCBI Protein Information         | plasminogen activator inhibitor 1; PAI; serpin E1; plasminogen activator inhibitor, type I; endothelial plasminogen activator inhibitor; nexin, plasminogen activator inhibitor type 1; serine (or cysteine) proteinase inhibitor, clade E, member 1; Plasminogen activator inhibitor-1 precursor (PAI-1) (Endothelial plasminogen activator inhibitor) (PAI) |
| UniProt Protein Name             | Plasminogen activator inhibitor 1                                                                                                                                                                                                                                                                                                                             |
| UniProt Gene Name                | Serpine1                                                                                                                                                                                                                                                                                                                                                      |
| UniProt Synonym Gene Names       | Mr1; Pai1; Planh1; PAI; PAI-1                                                                                                                                                                                                                                                                                                                                 |
| UniProt Entry Name               | PAI1_MOUSE                                                                                                                                                                                                                                                                                                                                                    |

**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.