**Anti-PAI1 antibody [1D5] ab125687**

### Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-PAI1 antibody [1D5]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Mouse monoclonal [1D5] to PAI1</td>
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<tr>
<td>Host species</td>
<td>Mouse</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: WB, ELISA, Flow Cyt, IHC-P</td>
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<tr>
<td>Species reactivity</td>
<td>Reacts with: Mouse, Human</td>
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<tr>
<td>Immunogen</td>
<td>Purified recombinant fragment of Human PAI1 expressed in E. Coli.</td>
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<tr>
<td>Positive control</td>
<td>Recombinant Human PAI1 protein (aa194-316); PAI1 (aa194-316)-hlgGFc transfected HEK293 cell lysate; Human lung cancer and kidney cancer tissues; NIH 3T3 cells.</td>
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<tr>
<td>General notes</td>
<td>This product was changed from ascites to supernatant. Lot no’s high than GR201079-27 are from Tissue Culture Supernatant</td>
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</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
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<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.</td>
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<tr>
<td>Storage buffer</td>
<td>Preservative: 0.05% Sodium azide; Constituent: PBS</td>
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<tr>
<td>Purity</td>
<td>Protein G purified</td>
</tr>
<tr>
<td>Purification notes</td>
<td>Purified from tissue culture supernatant.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone number</td>
<td>1D5</td>
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<tr>
<td>Isotype</td>
<td>IgG1</td>
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### Applications

Our Abpromise guarantee covers the use of ab125687 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
This inhibitor acts as 'bait' for tissue plasminogen activator, urokinase, and protein C. Its rapid interaction with TPA may function as a major control point in the regulation of fibrinolysis.

Tissue specificity
Found in plasma and platelets and in endothelial, hepatoma and fibrosarcoma cells.

Involvement in disease
Defects in SERPINE1 are the cause of plasminogen activator inhibitor-1 deficiency (PAI-1D) [MIM:613329]. It is a hematologic disorder characterized by increased bleeding after trauma, injury, or surgery. Affected females have menorrhagia. The bleeding defect is due to increased fibrinolysis of fibrin blood clots due to deficiency of plasminogen activator inhibitor-1, which inhibits tissue and urinary activators of plasminogen.

Note=High concentrations of SERPINE1 seem to contribute to the development of venous but not arterial occlusions.

Sequence similarities
Belongs to the serpin family.

Post-translational modifications
Inactivated by proteolytic attack of the urokinase-type (u-PA) and the tissue-type (TPA), cleaving the 369-Arg-Met-370 bond.

Cellular localization
Secreted.

Images

Anti-PAI1 antibody [1D5] (ab125687) at 1/500 dilution + Human PAI1 recombinant protein (amino acids 194-316)

Predicted band size: 45 kDa
**Western blot** - Anti-PAI1 antibody [1D5] (ab125687)

All lanes: Anti-PAI1 antibody [1D5] (ab125687) at 1/500 dilution

Lane 1: HEK293 cell lysate

Lane 2: PAI1-hlgGFc transfected HEK293 cell lysate (aa194-316)

Predicted band size: 45 kDa

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**ELISA** using ab125687.

**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)** - Anti-PAI1 antibody [1D5] (ab125687)

ab123687 at 1/200 dilution staining PAI1 in Paraffin-embedded Human lung cancer tissue by Immunohistochemistry followed by DAB staining.
ab123687 at 1/200 dilution staining PAI1 in Paraffin-embedded Human kidney cancer tissue by Immunohistochemistry followed by DAB staining.

ab125687 at 1/200 dilution staining PAI1 in NIH 3T3 cells by Flow Cytometry (green), negative control (red).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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