Monoclonal antibodies against human FSAP (Factor VII-activating protease)

Product Nos. ADG4601 and ADG4602

For Research Use Only!

**Description**

Factor VII-activating protease (FSAP) is a serine-protease present in human plasma as a single-chain proenzyme (64 kDa) at a concentration of 12 µg/ml. The proenzyme can be activated by an autocatalytic mechanism or by urokinase generating the active two-chain form (40 and 30 kDa). FSAP has the ability to activate both coagulation factor VII independent of tissue factor and pro-urokinase. Thus, FSAP has a dual function as a potent pro-coagulant and a pro-fibrinolytic agent. Recently a frequent variant of FSAP with a single nucleotide polymorphism (SNP) has been identified, termed “Marburg I” (FSAP-MI). The FSAP-MI variant shows diminished activity in pro-urokinase activation, whereas the capacity to activate Factor VII is normal. It seems likely that FSAP-MI, due to the resulting hemostatic imbalance, may promote the development of thromboembolic diseases.

**Preparation**

The monoclonal antibodies ADG4601 and ADG4602 are directed against the light chain of human FSAP. The antibodies are murine IgG1 monoclonal antibodies purified from cell culture supernatants via Protein G affinity chromatography. Purified human two-chain human Factor VII-activating protease was used as the immunizing agent.

**Presentation**

Screw capped vial containing 250 µg of purified antibody in PBS pH 7.4. The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

**Storage and Stability**

Store the antibody at 2°-8°C. For long-term storage the antibody should be aliquoted and stored at −20°C or colder. It is recommended to avoid freeze-thaw cycles.

### Reactivity and Known Applications

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<thead>
<tr>
<th>Product No.</th>
<th>4601</th>
<th>4602</th>
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<tbody>
<tr>
<td>Clone No.</td>
<td>1102/677</td>
<td>1102/570</td>
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<tr>
<td>Isotype</td>
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<td>IgG1</td>
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<td>Epitope</td>
<td>Light-chain</td>
<td>Light-chain</td>
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<tr>
<td>Applications</td>
<td>ELISA, WB, IHC</td>
<td>ELISA, IP, Inhibitory</td>
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</tbody>
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### References

1. Tests for the measurement of factor VII-activating protease (FSAP) activity and antigen levels in citrated plasma, their correlation to PCR testing, and utility for the detection of the Marburg I-polymorphism of FSAP. Stephan S et al., Clin Chem Lab Med. 2008;46(8):1109-1116.

### Related Products

- MUBIND® FSAP ELISA (Product no. ADG876), IMUBIND® FSAP Marbutg I ELISA (Product no. ADG878), monoclonal antibody against FSAP Marburg I variant (Product no. ADG4611).