Monoclonal antibodies against human FSAP Marburg I variant

Product Nos. ADG46011

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 antibody ADG4611 (clone 2004-9/014, subclass IgG2a) is directed against the FSAP Marburg I variant. The antibody was purified from cell culture supernatants via Protein G affinity chromatography. Synthetic peptide : MAP-ECE, KLH-conjugated 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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<td>IgG2a</td>
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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 et al., Clin Chem Lab Med. 2008;46(8):1109-1116.

Related Products
MUBIND® FSAP ELISA (Product no. ADG876), IMUBIND® FSAP Marburg I ELISA (Product no. ADG878), monoclonal antibodies against FSAP (Product nos. ADG4601 and ADG4602).