

Monoclonal antibody against human Tissue Factor Product No. ADG4508

Description

Tissue Factor (TF, CD142) is a 45 kDa transmembrane cell surface glycoprotein known for its role in initiating coagulation. It is comprised of three domains: an extracellular domain (aa 1-219), a hydrophilic spanning domain (aa 220-242) and a cytoplasmic tail (aa 243-263).

Properties

The monoclonal antibody ADG4508 (clone VD8, subclass IgG₁) is directed against an epitope within aa 1-25, the extracellular domain of human tissue factor.⁽¹⁾

Mice were immunized with purified apoprotein of human tissue factor (MW = 47 kDa). The antibody has been purified from cell culture supernatant using Protein A affinity chromatography.

The antibody reacts with and neutralizes the purified apoprotein of human tissue factor, native human brain and placental thromboplastin, recognize tissue factor on the surface of tumor cells and LPS stimulated monocytes.

Presentation

Clear glass, screw-capped vial containing 0.5 mg of purified IgG lyophilized from a 1 mg/mL solution PBS, pH 7,4 with 100 mM mannitol added as an excipient.

Reconstitution

Add 0.5 mL of filtered deionized or sterile water to the vial to generate a 1 mg/mL stock solution.

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.

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Applications

A. Immunohistochemistry

The antibody is recommended for staining both cryo- and formalin-fixed, paraffin-embedded human sections. Concentrations ranging from 1-10 µg/mL using incubations of 1 hour at 18°-25°C or overnight at 4°C have been used.

B. Western Blot Analysis

The antibody is suitable for Western blot analysis, detecting 50 ng of human tissue factor under reducing and non-reducing conditions at a working concentration of 5-10 µg/mL.

C. Flow Cytometry

The antibody is suitable for flow cytometric staining.

References

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3. Expression of Tissue Factor in High-Grade Carotid Artery Stenosis. Jander, S., *et al.*, *Stroke* 2001, **32**: 850-854.
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5. Human Pancreatic Duct Cells Exert Tissue Factor-Dependent Procoagulant Activity, Relevance to Islet Transplantation. Beuneu, C., *et al.*, *Diabetes* 2004, **53**: 1407-1411.
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Hinweis/Note:

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