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 ADG4507 (clone VIC7, subclass IgG1) recognizes an epitope within amino acids 203-214 of human Tissue Factor.[3]

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 neutralizes brain and placental thromboplastin.

Presentation
Screw capped vial containing 0.5 mg of purified antibody in PBS pH 7.4, 0.01 % ProClin300. 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.

Applications
ELISA
The antibody can be used as capture antibody in ELISAs.[1, 3]

Western Blot Analysis
The antibody can be used in Western blot analysis, detecting human tissue factor under reducing and non-reducing conditions at a working concentration of 2-10 µg/mL.[8]

Flow Cytometry
The antibody may be used for analyzing tissue factor expression of a wide variety of cell types including monocytes and HUVEC.[2, 4 - 6]

Immunohistochemistry
The antibody has been used for immunofluorescence staining and has shown a strong reactivity for tissue factor in frozen tissue sections of both the kidney (glomerular epithelia) and the epidermis (upper cell layer).[1, 2, 7]

Warnings and Precautions
Contains: Mixture of: 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H-isothiazol-3-one (3:1) and Modified alkyl carboxylate (ProClin ® 300)

Hazard pictograms
Signal word
Warning
Hazard statements
H317 - May cause an allergic skin reaction.

Precautionary statements
P280 - Wear protective gloves.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

References

For research use only!

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