

Monoclonal antibody against human TFPI

Product No. ADG4903

Description

The monoclonal antibody ADG4903 (clone 2H8) is a murine monoclonal antibody, subclass IgG₁ recognizing human Tissue factor pathway inhibitor (TFPI). Mice were immunized with purified native human tissue factor pathway inhibitor (TFPI, 38 kDa) from cultured HEP G-2 cells.⁽¹⁾ The epitope specificity of this antibody is aa 22-87, within Kunitz domain I of human TFPI which is involved in the TF/fVIIa interaction. This antibody neutralizes human TFPI, see Applications, below.

Presentation

Screw capped vial containing 100 µg of purified antibody in PBS pH 7.4, 0.01 % ProClin. 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

A. Western Blot Analysis: at 5 µg/mL the antibody will detect 50 ng/mL of human TFPI under nonreducing conditions only.⁽²⁾

B. Immunohistochemistry: the antibody is suitable for staining of human TFPI in formalin-fixed tissue sections.^(3, 4)

C. Flow cytometry: the antibody was used for staining of cells for flow cytometric analysis.⁽⁴⁾

C. Neutralization of human TFPI inhibition (complexed with human FXa, product no. 526): at 5 µg/mL the antibody neutralizes TFPI at 5 ng/mL. The antibody prevents the inhibition of the TF-FVIIa function.⁽⁵⁾

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



Warning

Signal word

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

1. Isolation of the tissue factor inhibitor produced by HepG2 hepatoma cells. Broze GJ Jr and Miletich JP. Proc Natl Acad Sci. 1987 Apr;84(7):1886-1890.
2. Tissue factor pathway inhibitor is expressed by human monocyte-derived macrophages: relationship to tissue factor induction by cholesterol and oxidized LDL. Petit L et al., Arterioscler Thromb Vasc Biol. 1999 Feb;19(2): 309-15.
3. Local gene transfer of tissue factor pathway inhibitor regulates intimal hyperplasia in atherosclerotic arteries. Zoldhelyi P. et al., Proc Natl Acad Sci. 2001 Mar 27;98(7):4078-4083.
4. The role of TFPI in regulation of TF-induced thrombogenicity on the surface of human monocytes. Basavaraj MG et al., Thromb Res. 2010 Nov;126(5):418-25.
5. Ligand-induced protease receptor translocation into caveolae: a mechanism for regulating cell surface proteolysis of the tissue factor-dependent coagulation pathway. Sevinsky JR et al., J Cell Biol. 1996 Apr;133(2):293-304.

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 BIOCHEMIE • PRODUKTE UND SYSTEME

Gerhart-Hauptmann-Str. 48
 69221 Dossenheim

Tel +49 6221 868023

Fax +49 6221 8680255

www.loxo.de - info@loxox.de

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Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.