IMMBIOMED

Monoclonal antibody against human Factor VIII

Product No. ADGESH-4

Description

The monoclonal antibody (clone ESH-4) is directed against human factor VIII:C. Mice were immunized with purified human factor VIII:C cryoprecipitate. Hybridomas were created by fusion of the immunized spleen cells with NS-1 murine myeloma cell lines.

Properties

The antibody (subclass IgG_{2a}) is directed against the light chain, aa: 2303-2332, phospholipid binding site on Cterminus.

The cross-reactivity was tested via IRMA, in comparison with human plasma (100%): the antibody does not cross react with Pig, Dog, Guinea Pig, and Cat, the antibody does cross-react with Rabbit (145%) and Baboon (112%).

Presentation

Screw capped vial containing 0.5 mg of purified antibody in PBS, pH 7.2, 0.1 % 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. Immunopurification / Immunodepletion The antibody binds factor VIII:C from plasma when covalently coupled to gels (1).

B. Immunofluorescence Microscopy

The antibody is useful for immunofluorescence ⁽³⁾.

C. Inhibitor

Clot inhibition was tested by incubation for 2 hrs at 37°C. 89% inhibition at 3 µg/mL (highest conc. tested). Recombinant human factor VIII binding to vWF is inhibited at about 3 µg/mL (Per Dr. E. Saenko, ARC, Rockville, MD). The antibody inhibits FVIIIa binding to platelets (5,6,), platelet-dependent factor Xase activity is inhibited 70% to 85% by the antibody ⁽⁶⁾.

The antibody is conformation dependent and is not useful for Western blotting.



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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

Hazard statements

Signal



H317 - May cause an allergic skin reaction.

word

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. The production and characterisation of a panel of ten murine monoclonal antibodies to human procoagulant factor VIII. Griffin, B. D., et al. Thromb Haemost, 1986; 55: 40-46.
- 2. Development, optimization and use of an enzyme linked immunosorbent assay (ELISA) to measure factor VIII antigen utilizing monoclonal antibodies. Hornsey, V. S., et al. Transf Med, 1992; 2: 223-229.
- 3. In vivo production of human factor VII in mice after intrasplenic implantation of primary fibroblasts receptor-mediated, transfected by adenovirusaugmented gene delivery. Zatloukal, K., et al. Proc Nat Acad Science USA, 1994; 91: 5148-5152.
- 4. Some factor VIII inhibitor antibodies recognize a common epitope corresponding to C2 domain amino acids 2248 through 2312, which overlap a phospholipidbinding site. Scandella, D., et al. Blood, 1995; 86: 1811-1819.
- 5. Role of the C2 domain of factor VIIIa in the assembly of factor-X activating complex on the platelet membrane. Ahmad SS. and Walsh PN. Biochem. 2005: 44(42):13858-13865.
- 6. Platelet binding sites for factor VIII in relation to fibrin and phosphatidylserine. Gilbert GE et al., Blood. 2015; 126(10):1237-1244.

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.

For research use only!