



HISTOPRIME[®]

CatNo E033

von-Willebrand-Factor

Lot: See Label

Storage: +2 to +8 °C

Exp. Date: See Label

Monoclonal Antibody against von-Willebrand-Factor (Factor VIII-associated antigen)

Specificity

The factor VIII complex is a protein found in normal human plasma and belongs to the coagulation factors. It consists of 3 subunits: factor VIII RCF (ristocetin cofactor), factor VIII C (coagulant portion) and factor VIII-associated antigen (Von Willebrand factor). This represents the large-molecule portion of the factor VIII complex. Its formation occurs in blood platelets and in the endothelium of all vascular segments, probably also in the RES of the liver. It is also found in megakaryocytes.

Contents

Reagents sufficient for about 50-100 tissue sections
1 dropper bottle **HISTOPRIME[®] von-Willebrand-Factor** (Bottle, 5 ml)

Application

The monoclonal antibody against Von Willebrand factor E033 is used to stain (cytoplasmic, granular) endothelial cells and megakaryocytes in human tissue. Tumors originating from endothelial cells or megakaryocytes can be detected by detecting this antigen. In addition, vascularization within different tissues can be assessed and tumor invasion into blood vessels can also be detected.

Fusion Partners

(C57BL/6xBalb/c) F1 mice were immunized with factor VIII-associated antigen. Splenocytes from these animals were fused with myeloma cell line NS1. The antibody is available as culture supernatant of the resulting hybridoma cells.

E033-230109-1/2



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Characterization

Antigen	von Willebrand Factor isolated from human plasma
Specificity	von Willebrand Factor (factor VIII-associated antigen)
Normal Tissues	Human endothelial cells, megakaryocytes
Clone	F8/86
Isotype	Mouse IgG1
Pretreatment	Proteolytic pretreatment with 0.1% Pronase (Cat.No.E110), 10 minutes at room temperature.
Incubation Period	1 hour at room temperature
Control Tissue	Tonsil
Application	Ready-to-use in PBS, BSA, NaN ₃ (0.09%) pH 7.4(*) suitable on cryostat sections and on formalin-fixed, paraffin-embedded tissue sections.
Recommended Secondary Reagents	Alkaline Phosphatase Vectastain [®] ABC Mouse IgG (Vector CatNo AK-5002) and Substrate-Kit e.g. Vector [®] Red (Vector CatNo SK-5100). Peroxidase Vectastain [®] ABC-Elite Mouse IgG (Vector CatNo PK-6102) and Peroxidase Substrate-Kit e.g. DAB (LINARIS CatNo E108) or HistoGreen (LINARIS CatNo E109).
References	

1. Naiem M., Gerdes J., Abdulaziz Z. et al. (1982) The value of immunohistological screening in the production of monoclonal antibodies. J. Immunol. Meth. 50; 145 – 60.
2. Avuer P., Armand D., Sultau Y., Maisonnave P-Jeanneau C. (1983) AISP Symposium, Larger Ed.: Monoclonal antibodies against the human factor VIII Willebrand molecule, characterization and potential for screening of Willebrand patients.
3. Hruban R.H., Kuhajda F.P., and Mann R.B. (1987) Acute myelofibrosis. Immunohistochemical study of four cases and comparison with acute megakaryocytic leukemia. Am. J. Clin. Pathol. 88; 578 – 588.
4. Mejan O., Fert V., Delezay M., Delage M., Cluballah R., and Bourgois A. (1988) Thrombosis and Haemostasis: Immunopurification of human factor VIII/vWF complex from plasma. 59, 364 – 371.

Differential identification is aided by the results from a panel of antibodies. Interpretation must be made within the context of the patient's clinical history and other diagnostics tests by a qualified pathologist.

(*Note) E033 contains Sodium Azide; take adequate precautions!

E033-230109-2/2

For Research use only. Not for use in diagnostic procedure

Manufacturer

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FIT FOR SCIENCE

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