Factor VIII Related Antigen / von Willebrand Factor Ab-2
Catalog # MS-722-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 200ug/ml)
Catalog # MS-722-R7 (7.0ml)
Catalog # MS-722-PCS

INTENDED USE:
- **For In Vitro Diagnostic Use:** This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.
- **Description:** Factor VIII related antigen or von Willebrand factor is a multimeric glycoprotein, which binds to platelet glycoprotein Ib, glycoprotein IIb/IIIa, collagen and heparin. It is synthesized by endothelial cells and stored in the Weibel-Palade granules. It mediates platelet adhesion to injured vessel walls and serves as a carrier and stabilizer for coagulation factor VIII. von Willebrand factor is one of the most useful markers to identify endothelial (or megakaryocytic) lineage of neoplasms. As not all endothelial cells synthesize / store) this molecule, about 30% of tumors of vascular origin fail to stain for factor VIII related antigen, regardless of whether they are benign or malignant. Staining for factor VIII related antigen has also been used to measure angiogenesis, an indicator of tumor recurrence.
- **Expected Staining Pattern:** Cytoplasmic
- **Positive Control:** Blood vessels in tonsil or intestine

MATERIALS PROVIDED:
- **Factor VIII Related Antigen / von Willebrand Factor Ab-2 (refer to catalog number):**
  - #MS-722-P (or -P0, -P1): 200ug/ml of antibody purified from ascites. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide.
  - or
  - #MS-722-R7: (7.0ml) of antibody prediluted in 0.05mol/L Tris-HCl, pH 7.6 containing stabilizing protein and 0.015mol/L sodium azide.
  - or
  - #MS-722-PCS: 5 positive control slides.
  - **Antibody Concentration:** 200ug/ml
  - **Host:** Mouse
  - **Mol. Wt. of Antigen:** 270kDa
  - **Epitope:** Not determined
  - **Species Reactivity:** Human. Others-not known
  - **Clone Designation:** F8/86
  - **Ig Isotype / Light Chain:** IgG1 / kappa
  - **Immunogen:** Partially purified von Willebrand factor from human placenta.
  - **Microbiological State:** This product is not sterile.

MATERIALS REQUIRED, BUT NOT PROVIDED:
- **Antibody Diluent:** For concentrated antibodies, the antibody must be diluted before using. Use Lab Vision Antibody Diluent (catalog # TA-125-UD). Refer to diluent product instructions for use.
- **Negative Control Reagent:** Refer to the “General Protocol” instructions.
- **Visualization System:** Refer to the “General Protocol” instructions.

METHODS AND PROCEDURES:

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<thead>
<tr>
<th>Specimen Preparation</th>
<th>Refer to the “General Protocol” instructions.</th>
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<tr>
<td>Dilution of Concentrated Antibody</td>
<td>1:50 – 1:100 in antibody diluent</td>
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<tr>
<td>Tissue Section Pretreatment</td>
<td>(Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 1mM EDTA, pH 8.0 (Cat. #AP-9004), for 10-20 min followed by cooling at RT for 20 min.)</td>
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<tr>
<td>Primary Antibody Incubation Time</td>
<td>20 minutes at Room Temperature using the LP system. 30 minutes at Room Temperature using the UltraVision or UltraVision ONE system.</td>
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<td>Staining Tips</td>
<td>If the staining is too light, use lower dilution or longer time. If the staining is too strong, use higher dilution or shorter time.</td>
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<td>Visualization</td>
<td>To detect antibody, follow the instructions provided with the visualization system.</td>
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STORAGE and STABILITY:
This product contains sodium azide and is stable for 24 months when stored at 2-8°C. Do not use after expiration date indicated on label of the product. If reagent is not stored as recommended, performance must be validated by the user.

REFERENCES:
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