**E-cadherin**
Concentrated and Prediluted Monoclonal Antibody
902-170-032518

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>ACR 170 A, C</th>
<th>APR 170 AA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>0.1, 1.0 ml, concentrated</td>
<td>6.0 ml, prediluted</td>
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<tr>
<td>Dilution:</td>
<td>1:100</td>
<td>Ready-to-use</td>
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<tr>
<td>Diluent:</td>
<td>Van Gogh Yellow</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Intended Use:**
For Research Use Only. Not for use in diagnostic procedures.

**Summary and Explanation:**
E-cadherin is a transmembrane glycoprotein that mediates epithelial cell-to-cell adhesion. The loss of E-cadherin can result in the disruption of cell clusters. It is therefore, postulated that E-cadherin may function as a tumor suppressor protein. The loss of E-cadherin has been associated with metastasis and poor prognosis in invasive breast cancer and can help differentiate between ductal and lobular neoplasms of the breast. It has also been shown to be an independent predictor in the disease progression in bladder cancer.

**Principle of Procedure:**
Antigen detection in tissues and cells is a multi-step immunohistochemical process. The initial step binds the primary antibody to its specific epitope. After labeling the antigen with a primary antibody, a secondary antibody is added to bind to the primary antibody. An enzyme label is then added to bind to the secondary antibody; this detection of the bound antibody is evidenced by a colorimetric reaction.

**Source:** Mouse monoclonal

**Species Reactivity:** Human; others not tested

**Clone:** HECD-1

**Isotype:** IgG1

**Total Protein Concentration:** ~10 mg/ml. Call for lot specific Ig concentration.

**Epitope/Antigen:** E-cadherin

**Cellular Localization:** Cytoplasmic/membrane

**Positive Control:** Breast cancer

**Known Applications:**
Immunohistochemistry (formalin-fixed paraffin-embedded tissues)
Supplied As: Buffer with protein carrier and preservative
Storage and Stability:
Store at 2°C to 8°C. Do not use after the expiration date printed on the vial.

**Precautions:**
- Do not use reagent after the expiration date printed on the vial.
- The SDS is available upon request and is located at http://biocare.net.

**Technical Support:**
Contact Biocare's Technical Support at 1-800-542-2002 for questions regarding this product.

**References:**

**Limitations:**
This product is provided for Research Use Only (RUO) and is not for use in diagnostic procedures. Suitability for specific applications may vary and it is the responsibility of the end user to determine the appropriate application for its use.

**Staining Protocol Recommendations:**

- Peroxide Block: Block for 5 minutes with Biocare's Peroxidized 1.
- Pretreatment: Perform heat retrieval using Biocare's Borg or Reveal Decloaker. Refer to the Borg or Reveal Decloaker product data sheet for specific instructions.
- Protein Block (Optional): Incubate for 5-10 minutes at RT with Biocare's Background Punisher.
- Primary Antibody: Incubate for 30-45 minutes at RT.
- Probe: Incubate for 10 minutes at RT with a secondary probe.
- Polymer: Incubate for 10-20 minutes at RT with a tertiary polymer.
- Chromogen: Incubate for 5 minutes at RT with Biocare's DAB-OR- Incubate for 5-7 minutes at RT with Biocare's Warp Red.
- Counterstain: Counterstain with hematoxylin. Rinse with deionized water. Apply Tacha's Bluing Solution for 1 minute. Rinse with deionized water.
- Technical Note:
- This antibody has been standardized with Biocare's MACH 4 detection system. Use TBS buffer for washing steps.