Technical Data Sheet

Purified Mouse Anti-E-Cadherin

Product Information

Material Number: 610182
Alternate Name: CD324; CDH1; CADHERIN-1; ECAD; CDHE; Arc-1; LCAM; UVO; Uvomorulin
Size: 150 µg
Concentration: 250 µg/ml
Clone: 36/E-Cadherin
Immunogen: Human E-Cadherin C-terminal Recombinant Protein
Isotype: Mouse IgG2a, κ
QC Testing: Human
Reactivity: Tested in Development: Mouse, Rat, Dog
Target MW: 120 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

E-Cadherin is a 120-kDa transmembrane glycoprotein that is localized in the adherens junctions of epithelial cells. There it interacts with the cytoskeleton through the associated cytoplasmic catenin proteins. In addition to being a calcium-dependent adhesion molecule, E-Cadherin is also a critical regulator of epithelial junction formation. Its association with catenins is necessary for cell-cell adhesion. These E-cadherin/catenin complexes associate with cortical actin bundles at both the zonula adherens and the lateral adhesion plaques. Tyrosine phosphorylation can disrupt these complexes, leading to changes in cell adhesion properties. E-Cadherin expression is often down-regulated in highly invasive, poorly differentiated carcinomas. Increased expression of E-Cadherin in these cells reduces invasiveness. Thus, loss of expression or function of E-Cadherin appears to be an important step in tumorigenic progression. The 36/E-Cadherin monoclonal antibody recognizes the cytoplasmic domain of E-Cadherin, regardless of phosphorylation status. The peptide immunogen was generated from human E-Cadherin aa. 735-883.

Note: Investigators are advised that this antibody has some degree of cross-reactivity to P-Cadherin.

Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Application Notes

Application

<table>
<thead>
<tr>
<th>Application</th>
<th>Western blot</th>
<th>Routinely Tested</th>
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<tbody>
<tr>
<td></td>
<td>Immunofluorescence</td>
<td>Tested During Development</td>
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<tr>
<td></td>
<td>Immunohistochemistry</td>
<td>Tested During Development</td>
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<tr>
<td></td>
<td>Immunoprecipitation</td>
<td>Tested During Development</td>
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</tbody>
</table>

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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</thead>
<tbody>
<tr>
<td>611447</td>
<td>A431 Cell Lysate</td>
<td>500 µg</td>
<td>(none)</td>
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<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
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<td>(none)</td>
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<tr>
<td>554001</td>
<td>FITC Goat Anti-Mouse Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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<td>612130</td>
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<td>36/E-Cadherin</td>
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<td>36/E-Cadherin</td>
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<td>610405</td>
<td>Purified Mouse Anti-E-Cadherin</td>
<td>150 µg</td>
<td>34/E-Cadherin</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References


