Technical Data Sheet
FITC Mouse Anti- E-Cadherin

Product Information
Material Number: 612130
Size: 50 µg
Concentration: 250 µg/ml
Clone: 36/E-Cadherin
Immunogen: Human E-Cadherin aa. 735-883
Isotype: Mouse IgG2a
Reactivity: QC Testing: Human
Tested in Development: Dog, Rat, Mouse
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 corneal 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.

This antibody is routinely tested by immunofluorescence microscopy. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.
Store undiluted at -20° C.

Application Notes

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<th>Application</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Immunofluorescence</td>
<td>Routinely Tested</td>
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<tr>
<td>Immunohistochemistry</td>
<td>Not Recommended</td>
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<tr>
<td>Immunoprecipitation</td>
<td>Not Recommended</td>
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Immunofluorescence staining of A431 cells.

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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