Technical Data Sheet

Purified Mouse Anti-Human MUC2

Product Information

Material Number: 555926
Size: 0.1 mg
Concentration: 0.5 mg/ml
Clone: CCP58
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human

Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Reacts with the core peptide of the MUC2 protein, a member of a family of mucin glycoproteins that are characterized by high carbohydrate content, O-linked oligosaccharides, high molecular weight (>200 kD) and an amino acid composition rich in serine, threonin, proline and glycine. The core protein contains a domain of 23 amino-acid tandem repeats which function as multiple epitopes for the monoclonal antibody. Incomplete glycosylation of some tumor-associated mucins may lead to variable unmasking of the multiple peptide epitopes leading to the observed differences in staining intensity between normal and malignant tissues. This antibody has been shown to be relatively tissue specific, being associated predominantly with intestinal tissue and is highly reactive with colon and gastric tumors. The antibody is suitable for staining formalin-fixed, paraffin-embedded tissue sections following citrate pretreatment.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

Application Notes

Application

<table>
<thead>
<tr>
<th>Immunohistochemistry-formalin (antigen retrieval required)</th>
<th>Routinely Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistochemistry-frozen</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>
</tr>
</thead>
<tbody>
<tr>
<td>555746</td>
<td>Purified Mouse IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MOPC-21</td>
</tr>
<tr>
<td>550337</td>
<td>Biotin Goat Anti-Mouse Ig (Multiple Adsorption)</td>
<td>1.0 ml</td>
<td>Polyclonal</td>
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<tr>
<td>550946</td>
<td>Streptavidin HRP</td>
<td>50 ml</td>
<td>(none)</td>
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<tr>
<td>550880</td>
<td>DAB Substrate Kit</td>
<td>500 tests</td>
<td>(none)</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.

References
