EpCAM Monoclonal Antibody (323/A3)

Catalog Number: MA1-10196

Details

- **Size**: 100 ug
- **Host/Isotope**: Mouse / IgG1
- **Class**: Monoclonal
- **Type**: Antibody
- **Clone**: 323/A3
- **Immunogen**: Human breast cancer MCF-7 cells
- **Conjugate**: Unconjugated
- **Form**: Liquid
- **Concentration**: 1 mg/ml
- **Purification**: Protein A
- **Storage buffer**: PBS, pH 7.4
- **Contains**: 15mM sodium azide
- **Storage Conditions**: 4°C, do not freeze

Species Reactivity

- **Tested species reactivity**: Human
- **Published species reactivity**: Human, Mouse, Not Applicable

Tested Applications

- **Flow Cytometry (Flow)**: Assay Dependent
- **Immunocytochemistry (ICC)**: 1-10 ug/ml
- **Immunohistochemistry (Paraffin) (IHC (P))**: 1-10 ug/ml
- **Immunoprecipitation (IP)**: 1-4 ug/ml
- **Western Blot (WB)**: 1-4 ug/ml

Published Applications

- **Flow Cytometry (Flow)**: See 2 publications below
- **Immunocytochemistry (ICC)**: See 2 publications below
- **Immunohistochemistry (IHC)**: See 2 publications below
- **Western Blot (WB)**: See 1 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiments using appropriate negative and positive controls.

Product specific information

This antibody will not cross-react with rat.

Background/Target Information

This gene encodes a carcinoma-associated antigen and is a member of a family that includes at least two type I membrane proteins. This antigen is expressed on most normal epithelial cells and gastrointestinal carcinomas and functions as a homotypic calcium-independent cell adhesion molecule. The antigen is being used as a target for immunotherapy treatment of human carcinomas. Mutations in this gene result in congenital tufting enteropathy. [provided by RefSeq, Dec 2008]

**2 Flow Cytometry References**

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human / 5 ug/ml</td>
<td>MA1-10196 was used in flow cytometry to study the presence in a sarcomatoid renal carcinoma cell line of both epithelioid and fibroblastic cells</td>
</tr>
<tr>
<td>Mouse / Not Cited</td>
<td>MA1-10196 was used in flow cytometry to evaluate the Ep-CAM genetic vaccination strategy in animal models</td>
</tr>
</tbody>
</table>

**2 Immunocytochemistry References**

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human / 2.5 ug/ml</td>
<td>MA1-10196 was used in immunocytochemistry to develop a process involving leukapheresis, elutriation and FACS to isolate circulating tumor cells from large volumes</td>
</tr>
<tr>
<td>Human / Not Cited</td>
<td>MA1-10196 was used in immunocytochemistry to study the role of adhesion-dependent regulation of PERK activity in modulating mammary acinar morphogenesis and breast tumorigenesis via inhibition of proliferation</td>
</tr>
</tbody>
</table>

**2 Immunohistochemistry References**

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human / Not Cited</td>
<td>MA1-10196 was used in immunohistochemistry to study the therapeutic implications of epithelial cell adhesion molecule overexpression in epithelial ovarian carcinomas</td>
</tr>
<tr>
<td>Human / Not Cited</td>
<td>MA1-10196 was used in immunohistochemistry to study key matrix components required for ex vivo maintenance of human hepatic progenitors</td>
</tr>
<tr>
<td>Not Applicable / Not Cited</td>
<td>MA1-10196 was used in immunohistochemistry to identify key matrix components required for ex vivo maintenance of human hepatic progenitors</td>
</tr>
</tbody>
</table>

**1 Western Blot References**

<table>
<thead>
<tr>
<th>Species / Dilution</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable / Not Cited</td>
<td>MA1-10196 was used in western blot to identify key matrix components required for ex vivo maintenance of human hepatic progenitors</td>
</tr>
</tbody>
</table>
MA1-10196 was used in western blot to examine a novel costimulatory adjuvant for tumor immuno therapy

Journal of immunotherapy (Hagerstown, Md. : 1997) (Sep 2008; 31: 644)
"EpCAM-specific vaccine response by modified antigen and chimeric costimulatory molecule in cynomolgus monkeys."

Author(s): Neighbors M, Apt D, Chang JC, Brinkman A, Sipos-Solman I, Ong R, Leong S, Punnonen J
PubMed Article URL: http://dx.doi.org/10.1097/CJI.0b013e3181826d89