Monoclonal Antibodies

Monoclonal Antibody MsMab-2
Against Mutated IDH1 and IDH2

Antigen Used for Immunization
Synthetic peptides of CGGVKPIIIGHLAYGDQYRA.

Method of Immunization
WKY/Izm rats were immunized by injecting 170 μg of synthetic peptides of CGGVKPIIIGHLAYGDQYRA conjugated with KLH together with Freund’s complete adjuvant into footpad.

Parental Cell Line Used for Fusion
Mouse myeloma Sp2/0.

Selection and Cloning Procedure
The culture supernatants were screened using ELISA for binding to IDH1-R132L and IDH1 wild-type peptides conjugated with BSA.

Heavy and Light Chains of Immunoglobulin
IgG2a, kappa.

Specificity
Western blot analysis showed that MsMab-2 reacted with the IDH1-R132L and IDH2-R172M recombinant proteins, but not with IDH1/2-WTs.

Specific Antigen Identified
IDH1-R132L

Availability

<table>
<thead>
<tr>
<th>Tissue culture supernatant</th>
<th>Yes ✔</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ascitic fluid</td>
<td>Yes ✔</td>
<td>No</td>
</tr>
<tr>
<td>Hybridoma cells</td>
<td>Yes</td>
<td>No ✔</td>
</tr>
</tbody>
</table>

Reference

Address correspondence to:
Dr. Yukinari Kato
Department of Regional Innovation
Tohoku University Graduate School of Medicine
2-1 Seiryo-machi, Aoba-ku
Sendai, Miyagi 980-8575
Japan
Telephone: +81-22-717-8207
Fax: +81-22-717-8207
E-mail: yukinari-k@bea.hi-ho.ne.jp