Monoclonal Antibodies in Immunodiagnosis and Immunotherapy

Monoclonal Antibody NZ-1 Against PA Tag

Antigen Used for Immunization
Synthetic peptides of EGGVAMPGAEDDVV.

Method of Immunization
SD rats were immunized by neck s.c. injections of the synthetic peptide EGGVAMPGAEDDVV (hpp3851), corresponding to amino acids 38–51 of human podoplanin with Freund’s complete adjuvant. One week later, secondary i.p. immunization was performed. The booster injection was given i.p. 2 days before spleen cells were harvested.

Parental Cell Line Used for Fusion
Mouse myeloma P3U1.

Selection and Cloning Procedure
The culture supernatants were screened using ELISA for binding to EGGVAMPGAEDDVV.

Heavy and Light Chains of Immunoglobulin
IgG2a, lambda.

Specificity
Western blot analysis showed that NZ-1 reacted with only PA-tagged recombinant proteins.

Specific Antigen Identified
PA tag.

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>
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References

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