Mesenchymal Stromal Cell Marker (CD44, CD90, Sca-1, CD45, CD29) Antibody Panel - Mouse ab93759

Overview

Product name
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Product overview
Mesenchymal Stromal Cell Marker (CD44, CD90, Sca-1, CD45, CD29) Antibody Panel ab93759 contains mouse reactive antibodies for key mesenchymal stromal cell markers, including a CD44 rat monoclonal, CD90 rat monoclonal, Sca-1 rat monoclonal, CD45 rat monoclonal and CD29 rat monoclonal antibody.

The Mouse Multipotent Mesenchymal Stromal Cell Marker Antibody Panel is designed for the characterization of cultured or isolated mouse multipotent mesenchymal stromal cells. The panel contains a group of antibodies for the positive (CD44, CD29, Sca-1, CD90) and negative (CD45) selection of this lineage. Multipotent mesenchymal stromal cells (MSCs) represent a heterogeneous subset of stromal cells. They can be bone marrow-derived or isolated from many other different adult tissues including periosteum, trabecular bone, adipose tissue, and synovium. They exhibit the potential to give rise to cells of diverse lineages including adipocytes, chondrocytes and osteocytes.

Properties

Storage instructions
Please refer to protocols.

Components
<table>
<thead>
<tr>
<th></th>
<th>1 units</th>
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</thead>
<tbody>
<tr>
<td>ab25340 - Anti-CD44 antibody [KM201]</td>
<td>1 x 50µg</td>
</tr>
<tr>
<td>ab25386 - Anti-CD45 antibody [I3/2.3]</td>
<td>1 x 50µg</td>
</tr>
<tr>
<td>ab3105 - Anti-CD90 / Thy1 antibody [IBL-6/23]</td>
<td>1 x 50µg</td>
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<tr>
<td>ab95623 - Anti-Integrin beta 1 antibody [KMI6]</td>
<td>1 x 50µg</td>
</tr>
<tr>
<td>ab51317 - Anti-Sca1 / Ly6A/E antibody [E13 161-7]</td>
<td>1 x 50µg</td>
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Images
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Mouse Mesenchymal Stromal Cell Marker Panel (CD44, CD90, Sca-1, CD45 and CD29) (ab93759)

This image was submitted as part of an anonymous Abreview.

IHC image of ab25340 staining CD44 on Mouse Tissue sections (T-cell lymphoma). The cells were 4% PFA fixed (10 min) and then incubated in Perkin-Elmer TNB Blocking Reagent at 0.5% as blocking agent for 30 mins at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab25340, 1/250 dilution) overnight at +4°C. The secondary antibody was ab7097.

Immunocytochemistry/ Immunofluorescence - Mouse Mesenchymal Stromal Cell Marker Panel (CD44, CD90, Sca-1, CD45 and CD29) (ab93759)

ICC/IF image of ab51317 staining Sca-1 in mouse embryonic stem cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab51317, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rat IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue).

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