This antibody recognizes an O-linked sialoglycoprotein found on lymphatic endothelium but not in capillaries. It is also expressed on foetal testis and on the surface of testicular germ cell tumours.

Positive control tissues: Tonsil

<table>
<thead>
<tr>
<th>Vendor, Catalogue</th>
<th>Instrument</th>
<th>Detection</th>
<th>Antibody Concentration</th>
<th>Pre-treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>COVANCE, SIG-3730</td>
<td>Bondmax</td>
<td>Polymer Refine kit, Vision Biosystem DS9800</td>
<td>1:25 for 20 mins</td>
<td>ER1 for 20 mins</td>
</tr>
</tbody>
</table>

Applications:
The membrane protein Podoplanin is a mucin-type sialoglycoprotein known to be a useful marker for lymphatic endothelium. The monoclonal antibody D2-40 recognizes podoplanin, which is also an established marker for germ cell tumours, mesotheliomas, and other tumor types. It is also expressed in a variety of normal cells including follicular dendritic cells. Lymphatic vascular invasion as highlighted by immunostaining with D2-40 has been shown to be a strong predictor of nodal metastasis in various cancers such as breast, oesophagus, uterus and cervix.

References: