### Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Mesothelin antibody [SP74]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit monoclonal [SP74] to Mesothelin</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: WB, IHC-P</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td>Immuneon</td>
<td>Synthetic peptide within Human Mesothelin aa 550 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: Q13421</td>
</tr>
<tr>
<td>Positive control</td>
<td>IHC-P: Human Mesothelioma tissue. WB: BxPC-3, HeLa, PC3 and A549 cell lysate.</td>
</tr>
<tr>
<td>General notes</td>
<td>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</td>
</tr>
</tbody>
</table>

### Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>pH: 7.60</td>
</tr>
<tr>
<td></td>
<td>Preservative: 0.1% Sodium azide</td>
</tr>
<tr>
<td></td>
<td>Constituents: PBS, 1% BSA</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein A/G purified</td>
</tr>
<tr>
<td>Purification notes</td>
<td>Purified from TCS by protein A/G.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone number</td>
<td>SP74</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
</tbody>
</table>

### Applications
Membrane-anchored forms may play a role in cellular adhesion.

Megakaryocyte-potentiating factor (MPF) potentiates megakaryocyte colony formation in vitro.

Expressed in lung. Expressed at low levels in heart, placenta and kidney. Expressed in mesothelial cells. Highly expressed in mesotheliomas, ovarian cancers, and some squamous cell carcinomas (at protein level).

Note=Antibodies against MSLN are detected in patients with mesothelioma and ovarian cancer.

Belongs to the mesothelin family.

Both MPF and the cleaved form of mesothelin are N-glycosylated.

Proteolytically cleaved by a furin-like convertase to generate megakaryocyte-potentiating factor (MPF), and the cleaved form of mesothelin.

Secreted and Cell membrane, Golgi apparatus.

**Target**

**Function**
Membrane-anchored forms may play a role in cellular adhesion.

Megakaryocyte-potentiating factor (MPF) potentiates megakaryocyte colony formation in vitro.

**Tissue specificity**
Expressed in lung. Expressed at low levels in heart, placenta and kidney. Expressed in mesothelial cells. Highly expressed in mesotheliomas, ovarian cancers, and some squamous cell carcinomas (at protein level).

**Involvement in disease**
Note=Antibodies against MSLN are detected in patients with mesothelioma and ovarian cancer.

**Sequence similarities**
Belongs to the mesothelin family.

**Post-translational modifications**
Both MPF and the cleaved form of mesothelin are N-glycosylated.

Proteolytically cleaved by a furin-like convertase to generate megakaryocyte-potentiating factor (MPF), and the cleaved form of mesothelin.

**Cellular localization**
Secreted and Cell membrane, Golgi apparatus.

**Images**

**Western blot - Anti-Mesothelin antibody [SP74] (ab93620)**

All lanes: Anti-Mesothelin antibody [SP74] (ab93620) at 0.322 µg/ml

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) cell lysate
Lane 2: BxPC-3 (Human pancreas adenocarcinoma epithelial cell) cell lysate
Lane 3: PC3 (Human prostate adenocarcinoma epithelial cell) cell lysate
Lane 4: A549 (Human lung carcinoma epithelial cell) cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 0.05 µg/ml

**Predicted band size**: 69 kDa
Observed band size: 49.69 kDa

why is the actual band size different from the predicted?

Blocking/Diluting buffer and concentration: 5% NFDM / TBST

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human mesothelioma tissue sections labeling Mesothelin with Purified ab93620 at 1/100 dilution (1.4 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 20mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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