S100P

*IHC of S100P on an FFPE Melanoma Tissue*

**Intended Use** For In Vitro Diagnostic Use

**Summary and Explanation**
S100P is a member of the S100 family of proteins containing 2 EF-hand calcium binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100P is expressed in various normal tissues including placenta, bladder, spleen, gastric and intestinal mucosa. Overexpression of S100P has been detected in several cancers such as colon, prostate, pancreatic and lung carcinomas. It has been functionally implicated in carcinogenic processes.

S100P is an early development marker of pancreatic carcinogenesis and can be used as a marker for pancreatic ductal adenocarcinoma. It may also serve as a predictor of distant metastasis and poor survival in non-small cell lung carcinomas.

**Antibody Type** Rabbit Monoclonal

**Isotype** IgG

**Clone** EP186*

**Reactivity** Paraffin, Frozen

**Localization** Cytoplasmic, Nuclear

**Control** Colon, Prostate, Pancreatic and Lung Carcinoma

* The S100P antibody, clone EP186, has been manufactured using Epitomics RabMab® technology covered under Patent No's 5,675,063 and 7,402,409.

**Presentation** Anti-S100P is a rabbit monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.

**Availability**

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Antibody Type</th>
<th>Dilution</th>
<th>Volume/QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSB 2182</td>
<td>Tinto Prediluted</td>
<td>Ready-To-Use</td>
<td>3.0 ml</td>
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<td>BSB 2183</td>
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<td>BSB 2184</td>
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<tr>
<td>BSB 2185</td>
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<td>0.1 ml</td>
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<tr>
<td>BSB 2186</td>
<td>Concentrated</td>
<td>1:25-1:100</td>
<td>0.5 ml</td>
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<tr>
<td>BSB 2187</td>
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<tr>
<td>BSB 2188</td>
<td>Control Slides</td>
<td></td>
<td>5</td>
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</tbody>
</table>

*Note: For concentrated antibodies, please centrifuge prior to use to ensure recovery of all product.*

**Storage** Store at 2°-8°C

**Stability** 3 years

For long-term storage of the concentrated antibody, it is recommended that aliquots of the antibody be frozen at -20°C in glycerol 50% (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Dilute using an antibody diluent such as ImmunoDetector Protein Block/Antibody Diluent (BSB 0040 and BSB 0041) or ImmunoDNA Background Blocker (BSB 0103-BSB 0107).

The sodium azide (NaN3) used as a preservative, is toxic if ingested.

**Protocol** Suggested protocol on reverse
**Recommended Immunohistochemical Protocol**

**Pretreatment**

1. Cut and mount 3-4 micron formalin-fixed paraffin-embedded tissues on positive charged slides.
2. Air dry for 2 hours at 58\(^\circ\) C.
3. Deparaffinize, dehydrate and rehydrate tissues.
4. Subject tissues to heat epitope retrieval using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023) or EDTA (BSB 0030-BSB 0033).
5. Any of three heating methods may be used:
   
   a. **Electric Pressure Cooker**
      
      Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA, and place in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high, and incubate for 15 minutes. Open and immediately transfer slides to room temperature.

   b. **Water Bath Method**
      
      Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a water bath set at 95\(^\circ\)-99\(^\circ\) C. Incubate for 30-60 minutes.

   c. **Conventional Steamer Method**
      
      Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a Steamer, cover and steam for 30-60 minutes.

6. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 minutes.
7. Wash slides with IHC wash buffer or DI water.
8. Continue IHC staining protocol.

### Immunohistochemical Protocol

<table>
<thead>
<tr>
<th>Step</th>
<th>ImmunoDetector AP/HRP</th>
<th>PolyDetector AP/HRP</th>
<th>PolyDetector Plus HRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peroxidase/AP Blocker</td>
<td>5 minutes</td>
<td>5 minutes</td>
<td>5 minutes</td>
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<tr>
<td>Primary Antibody</td>
<td>30-60 minutes</td>
<td>30-60 minutes</td>
<td>30-60 minutes</td>
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<td>1st Step Detection</td>
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<td>45 minutes</td>
<td>15 minutes</td>
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<tr>
<td>Substrate-Chromogen</td>
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<td>5-10 minutes</td>
<td>5-10 minutes</td>
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<tr>
<td>Counterstain</td>
<td>Varies</td>
<td>Varies</td>
<td>Varies</td>
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</tbody>
</table>

**Limitations**

Anti-S100P antibody, when used as directed, detects antigens that survive routine formalin fixation, tissue processing and sectioning. Users who deviate from recommended test procedures are responsible for interpretation and validation of patient results.

**References**


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Bio SB

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