**Intended Use**

For In Vitro Diagnostic Use.

This antibody is intended for use in immunohistochemical applications on formalin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections and cell preparations. Interpretation of results should be performed by a qualified medical professional.

*The Islet 1 antibody, clone EP283, has been manufactured using Epitomics RabMab® technology covered under Patent No.s 5,675,063 and 7,402,409.*

**Immunogen**

A synthetic peptide corresponding to residues of human Islet-1 protein.

**Summary and Explanation**

Islet-1, Insulin gene enhancer protein ISL-1, is a protein that in humans is encoded by the ISL1 gene. This gene encodes a transcription factor containing two N-terminal LIM domains and one C-terminal homeo domain. The encoded protein plays an important role in the embryogenesis of pancreatic islets of Langerhans. ISL1 has been shown to interact with Estrogen Receptor alpha.

Islet-1 produces a strong nuclear staining in the islets of normal pancreas and tumor cells of the pancreatic neuroendocrine tumors. Islet-1 has been found to be a reliable marker of pancreatic endocrine tumors and metastasis. It shows a comparable sensitivity and specificity as CDX2 as a marker of ileal and appendical neuroendocrine tumors and their metastasis. TTF1 is very rarely expressed in well-differentiated gastroentero-pancreatic endocrine tumors. Therefore, the panel of Islet-1, CDX2, and TTF1 may be useful for examining metastasis of well-differentiated endocrine carcinomas of unknown origin.

**Presentation**

Islet 1 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.

**Catalog Num.**

<table>
<thead>
<tr>
<th>Antibody Type</th>
<th>Dilution</th>
<th>Volume/Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSB 2971</td>
<td>Tinto Prediluted</td>
<td>Ready-to-Use</td>
</tr>
<tr>
<td>BSB 2972</td>
<td>Tinto Prediluted</td>
<td>Ready-to-Use</td>
</tr>
<tr>
<td>BSB 2973</td>
<td>Tinto Prediluted</td>
<td>Ready-to-Use</td>
</tr>
<tr>
<td>BSB 2974</td>
<td>Concentrated</td>
<td>1:25 - 1:100</td>
</tr>
<tr>
<td>BSB 2975</td>
<td>Concentrated</td>
<td>1:25 - 1:100</td>
</tr>
<tr>
<td>BSB 2976</td>
<td>Concentrated</td>
<td>1:25 - 1:100</td>
</tr>
<tr>
<td>BSB 2977</td>
<td>Control Slides</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Precautions**

1. For professional users only. Ensure results are interpreted by a medical professional.
2. This product contains sodium azide (NaN3), a toxic chemical which may react with plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent sodium azide build-up.
3. Ensure proper handling procedures are used with reagent. Always wear proper laboratory equipment such as laboratory coat and gloves when handling reagents.
4. Unused solution should be disposed of according to local and federal regulations.
5. Do not ingest reagent. If reagent ingested, contact a poison control center immediately.

**Storage**

Store at 2-8 °C. Do not use after expiration date listed on package label. Temperature fluctuations should be avoided. Store appropriately when not in use, and avoid prolonged exposure to room temperature conditions.

**Specimen Preparation**

**Paraffin sections:** The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation to ensure best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using Bio SB ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023), ImmunoDNA Retriever with EDTA (BSB 0030-BSB 0033) or ImmunoDNA Digestor (BSB 0108-0112). See reverse side for complete protocol. Tissue should remain hydrated via use of Bio SB Immuno/DNA Washer solutions (BSB 0029 & BSB 0042).

**Frozen sections and cell preparations:** The antibody can be used for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.

**Recommended IHC 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 min.</td>
<td>5 min.</td>
<td>5 min.</td>
</tr>
<tr>
<td>Primary Antibody</td>
<td>30-60 min.</td>
<td>30-60 min.</td>
<td>30-60 min.</td>
</tr>
<tr>
<td>1st Step Detection</td>
<td>10 min.</td>
<td>30-45 min.</td>
<td>15 min.</td>
</tr>
<tr>
<td>2nd Step Detection</td>
<td>10 min.</td>
<td>Not Applicable</td>
<td>15 min.</td>
</tr>
<tr>
<td>Substrate-Chromogen</td>
<td>5-10 min.</td>
<td>5-10 min.</td>
<td>5-10 min.</td>
</tr>
<tr>
<td>Counterstain</td>
<td>Varies</td>
<td>Varies</td>
<td>Varies</td>
</tr>
</tbody>
</table>

**Symbol Key / Légende des symboles/Erläuterung der Symbole**

- **In Vitro Diagnostic Medical Device**
  - Dispositif médical de diagnostic in vitro
  - In-Vitro-Diagnostikum

- **Manufacturer**
  - Fabricant
  - Hersteller

- **Catalog Number**
  - Référence du catalogue
  - Bestellnummer

- **Expiration Date**
  - Utiliser jusque
  - Verwendbar bis

- **Lot Number**
  - Code du lot
  - Chargenbezeichnung

- **Storage Temperature**
  - Limites de température
  - Zulassiger temperaturbereich

- **Read Instructions for Use**
  - Consultez les instructions d'utilisation
  - Gebrauchsanweisung beachten

- **In 2°C**

**Product Limitations**

Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized and incubation time), optimal performance should be established through the use of positive and negative controls. Results should be interpreted by a medical professional.

**References**