Product datasheet

Anti-S100P antibody [EPR6142] ab124743

Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-S100P antibody [EPR6142]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit monoclonal [EPR6142] to S100P</td>
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<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: WB, IHC-P, ICC/IF, Flow Cyt</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Synthetic peptide within Human S100P aa 1-100. The exact sequence is proprietary.</td>
</tr>
<tr>
<td>Positive control</td>
<td>BxPC3 cell lysate; Human pancreatic adenocarcinoma, placenta and spleen tissues.</td>
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</tbody>
</table>
| General notes         | Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents.

We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

This product is a recombinant rabbit monoclonal antibody.

Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.</td>
</tr>
</tbody>
</table>
| Storage buffer        | pH: 7.40
Preservative: 0.01% Sodium azide
Constituents: 40% Glycerol, 0.05% BSA, 59% PBS |
| Purity                | Protein A purified                          |
| Clonality             | Monoclonal                                  |
| Clone number          | EPR6142                                     |
| Isotype               | IgG                                          |
**Applications**

Our **Abpromise guarantee** covers the use of **ab124743** in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/1000. Detects a band of approximately 10 kDa (predicted molecular weight: 10 kDa).</td>
<td></td>
</tr>
<tr>
<td>IHC-P</td>
<td>1/150 - 1/300. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <strong>IHC antigen retrieval protocols</strong>.</td>
<td></td>
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<tr>
<td>ICC/IF</td>
<td>1/150.</td>
<td></td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>Use a concentration of 1 µg/ml.</td>
<td></td>
</tr>
</tbody>
</table>

**Target**

**Tissue specificity**
Up-regulated in various pancreatic ductal adenocarcinomas and pancreatic intraepithelial neoplasias.

**Sequence similarities**
Belongs to the S-100 family.
Contains 2 EF-hand domains.

**Cellular localization**
Nucleus. Cytoplasm. Colocalizes with S100PBP in the nucleus.

**Images**

Western blot - Anti-S100P antibody [EPR6142] (ab124743)

Anti-S100P antibody [EPR6142] (ab124743) at 1/1000 dilution (purified) + BxPC-3 cell lysate at 10 µg

**Secondary**

HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 10 kDa

**Observed band size:** 10 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST
Flow Cytometry analysis of BxPC-3 (human Pancreas adenocarcinoma) cells labeling S100P with purified ab124743 at 1/1700 dilution (1μg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488)(1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.

Immunohistochemical staining of paraffin embedded human pancreatic adenocarcinoma with purified ab124743 at a working dilution of 1 in 300. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.
Immunofluorescence staining of BxPC-3 cells with purified ab124743 at a working dilution of 1 in 150, counter-stained with DAPI. The secondary antibody was Alexa Fluor® 555 goat anti-rabbit, used at a dilution of 1 in 500. The cells were fixed in 4% PFA. The negative control is shown in bottom right hand panel - for the negative control, purified ab124743 was used at a dilution of 1/200 followed by an Alexa Fluor® 555 goat anti-mouse antibody at a dilution of 1/500.

Anti-S100P antibody [EPR6142] (ab124743) at 1/1000 dilution (unpurified) + BxPC3 cell lysate at 10 µg

Secondary
Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 10 kDa
Observed band size: 10 kDa

Unpurified ab124743, at 1/500 dilution, staining S100P in paraffin-embedded human pancreatic adenocarcinoma tissue by immunohistochemistry.
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Unpurified ab124743, at 1/500 dilution, staining S100P in paraffin-embedded human placenta tissue by immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Unpurified ab124743, at 1/500 dilution, staining S100P in paraffin-embedded human spleen tissue by immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Unpurified ab124743 showing negative staining in normal liver tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Unpurified ab124743 showing positive staining in colonic adenocarcinoma tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Unpurified ab124743 showing negative staining in normal pancreas tissue.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

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

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