

### Anti-SHP1 antibody [Y476] ab32559

KO 評価済 リコンビナント RabMAb

★★★★★ **3 Abreviews** **22 References** **画像数 11**

#### 製品の概要

|              |   |
|--------------|---|
| 製品名          | Anti-SHP1 antibody [Y476]   |
| 製品の詳細        | Rabbit monoclonal [Y476] to SHP1  |
| 由来種          | Rabbit  |
| 特異性          | The antibody is predicted to detect isoforms 1, 2 and 3 of human SHP1 based on sequence analysis.   |
| アプリケーション     | <b>適用あり:</b> WB, IHC-P<br><b>適用なし:</b> Flow Cyt, ICC/IF or IP   |
| 種交差性         | <b>交差種:</b> Mouse, Rat, Human   |
| 免疫原          | Synthetic peptide within Human SHP1 aa 550 to the C-terminus (C terminal). The exact sequence is proprietary.<br>Database link: <a href="#">P29350</a>  |
| ポジティブ・コントロール | WB: THP-1 cell lysate, A431 cell lysate, Jurkat cell lysate, K562 cell lysate. IHC-P: Human tonsil and lymph node tissue; Rat spleen tissue; Mouse liver tissue.  |
| 特記事項         | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> .<br>Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> . |

#### 製品の特性

|       |   |
|-------|---|
| 製品の状態 | Liquid  |
| 保存方法  | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C. |
| バッファー | pH: 7.20<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA                              |

|        |                    |
|--------|--------------------|
| 精製度    | Protein A purified |
| ポリ/モノ  | モノクローナル            |
| クローン名  | Y476               |
| アイソタイプ | IgG                |

## アプリケーション

**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab32559の使用に適用されます  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

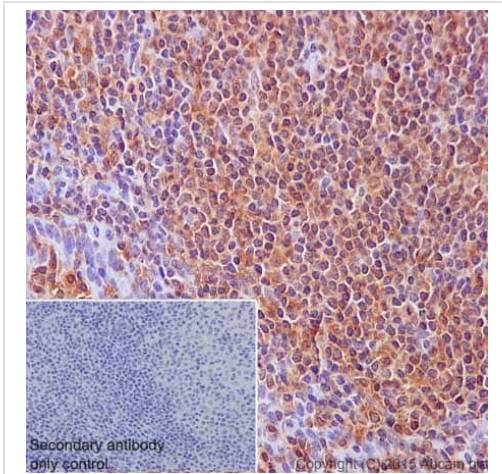
| アプリケーション | Abreviews | 特記事項  |
|----------|-----------|---|
| WB       | ★★★★★ (2) | 1/1000. Detects a band of approximately 65 kDa (predicted molecular weight: 68 kDa).                                      |
| IHC-P    |           | 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |

**追加情報** Is unsuitable for Flow Cyt, ICC/IF or IP.

## ターゲット情報

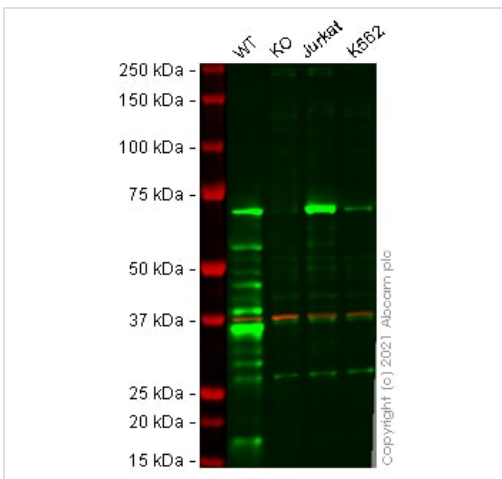
|              |   |
|--------------|---|
| <b>機能</b>    | Plays a key role in hematopoiesis. This PTPase activity may directly link growth factor receptors and other signaling proteins through protein-tyrosine phosphorylation. The SH2 regions may interact with other cellular components to modulate its own phosphatase activity against interacting substrates. Together with MTUS1, induces UBE2V2 expression upon angiotensin II stimulation. |
| <b>組織特異性</b> | Isoform 1 is expressed in hematopoietic cells. Isoform 2 is expressed in non-hematopoietic cells.   |
| <b>配列類似性</b> | Belongs to the protein-tyrosine phosphatase family. Non-receptor class 2 subfamily.<br>Contains 2 SH2 domains.<br>Contains 1 tyrosine-protein phosphatase domain.   |
| <b>翻訳後修飾</b> | Phosphorylated on serine and tyrosine residues.   |
| <b>細胞内局在</b> | Cytoplasm. Nucleus. In neurons, translocates into the nucleus after treatment with angiotensin II.  |

## 画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SHP1 antibody [Y476] (ab32559)

Immunohistochemical staining of paraffin embedded human tonsil with purified ab32559 at a working dilution of 1/100. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. 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.



Western blot - Anti-SHP1 antibody [Y476] (ab32559)

**All lanes** : Anti-SHP1 antibody [Y476] (ab32559) at 1/1000 dilution

**Lane 1** : Wild-type THP-1 cell lysate

**Lane 2** : PTPN6 knockout THP-1 cell lysate

**Lane 3** : Jurkat cell lysate

**Lane 4** : K562 cell lysate

Lysates/proteins at 20 µg per lane.

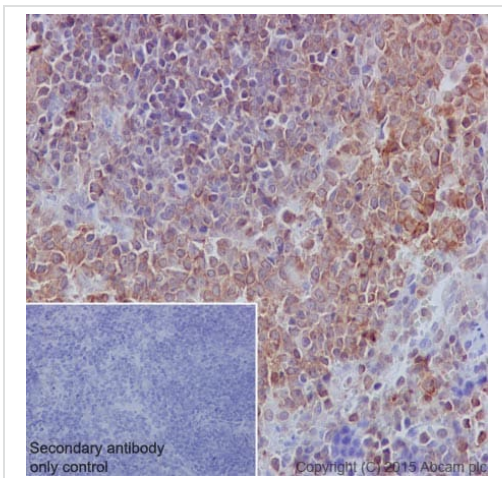
Performed under reducing conditions.

**Predicted band size:** 68 kDa

**Observed band size:** 70 kDa

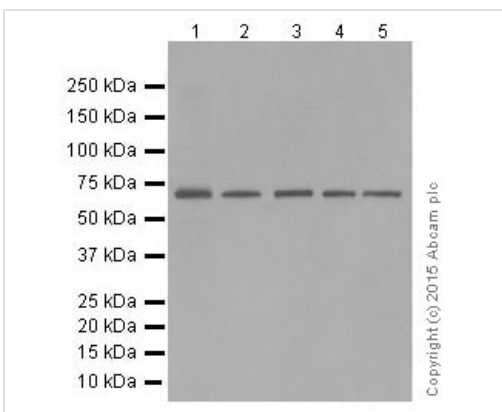
**Lanes 1 -4:** Merged signal (red and green). Green - ab32559 observed at 70 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

ab32559 was shown to react with SHP1 in wild-type THP-1 cells in Western blot with loss of signal observed in PTPN6 knockout sample. Wild-type THP-1 and PTPN6 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween<sup>®</sup>) before incubation with ab32559 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye<sup>®</sup> 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunohistochemical staining of paraffin embedded rat spleen with purified ab32559 at a working dilution of 1/100. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. 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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SHP1 antibody [Y476] (ab32559)



Western blot - Anti-SHP1 antibody [Y476] (ab32559)

**All lanes** : Anti-SHP1 antibody [Y476] (ab32559) at 1/1000 dilution (purified)

**Lane 1** : SP2/0 cell lysate

**Lane 2** : mouse marrow

**Lane 3** : rat brain

**Lane 4** : C6 cell lysate

**Lane 5** : rat cerebral cortex

Lysates/proteins at 20 µg per lane.

**Secondary**

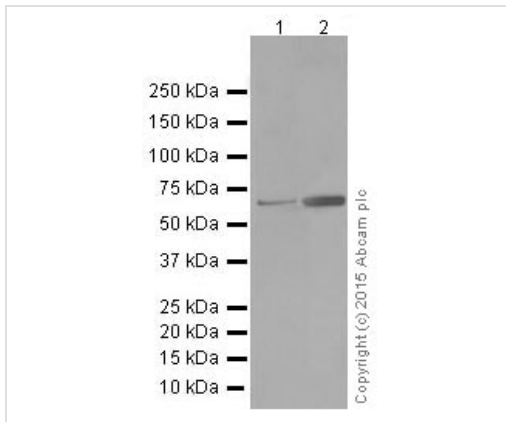
**All lanes** : HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

**Predicted band size:** 68 kDa

**Observed band size:** 65 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-SHP1 antibody [Y476] (ab32559)

**All lanes** : Anti-SHP1 antibody [Y476] (ab32559) at 1/1000 dilution (purified)

**Lane 1** : A431 cell lysate

**Lane 2** : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

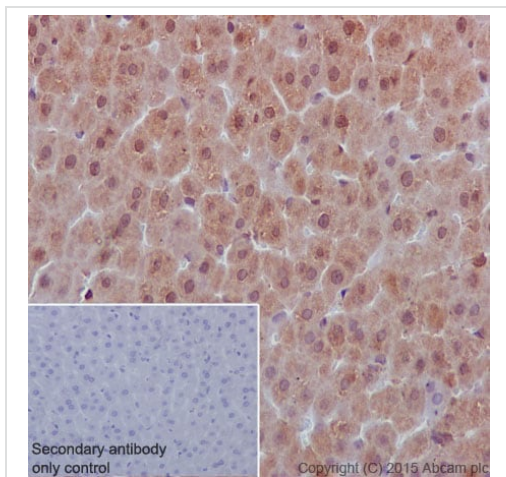
**All lanes** : HRP goat anti-rabbit IgG (H+L) at 1/50000 dilution

**Predicted band size:** 68 kDa

**Observed band size:** 65 kDa

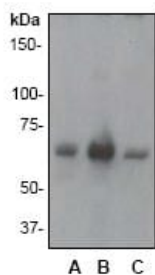
Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SHP1 antibody [Y476] (ab32559)

Immunohistochemical staining of paraffin embedded mouse liver with purified ab32559 at a working dilution of 1/100. The secondary antibody used is HRP goat anti-rabbit IgG H&L (**ab97051**) at 1/500. 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.



Western blot - Anti-SHP1 antibody [Y476] (ab32559)

**All lanes :** Anti-SHP1 antibody [Y476] (ab32559) at 1/1000 dilution (unpurified)

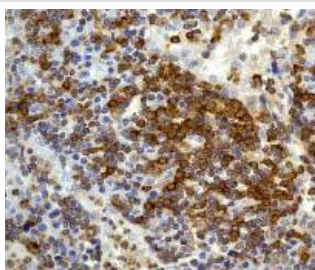
**Lane 1 :** A- A431 cell lysate

**Lane 2 :** B- Jurkat cell lysate

**Lane 3 :** C- K562 cell lysate

**Predicted band size:** 68 kDa

**Observed band size:** 65 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SHP1 antibody [Y476] (ab32559)

Unpurified ab32559, at a 1/50 dilution, staining human lymph node by immunohistochemistry, Paraffin embedded tissue.

Tissue Microarray (TMA) data for ab32559

| Mouse normal tissue samples |   | Rat normal tissue samples |   |                    |   |                     |   |
|-----------------------------|---|---------------------------|---|--------------------|---|---------------------|---|
| Mouse cardiac muscle        | x | Mouse pancreas            | ✓ | Rat cardiac muscle | x | Rat pancreas        | ✓ |
| Mouse cerebrum              | ✓ | Mouse skeletal muscle     | x | Rat cerebrum       | ✓ | Rat skeletal muscle | x |
| Mouse colon                 | ✓ | Mouse skin                | x | Rat colon          | ✓ | Rat skin            | x |
| Mouse kidney                | ✓ | Mouse spleen              | ✓ | Rat kidney         | ✓ | Rat spleen          | ✓ |
| Mouse liver                 | ✓ | Mouse stomach             | ✓ | Rat liver          | ✓ | Rat stomach         | ✓ |
| Mouse lung                  | ✓ | Mouse testis              | ✓ | Rat lung           | ✓ | Rat testis          | ✓ |

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SHP1 antibody [Y476] (ab32559)


Tissue Microarrays stained for "Anti-SHP1 antibody [Y476]" using "ab32559" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab32559 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

| Tissue Microarray (TMA) data for ab32559 |   |                       |                                |                                      |   |                                |   |
|--|---|-----------------------|--------------------------------|--------------------------------------|---|--------------------------------|---|
| Human normal tissue samples              |   |                       | Human malignant tissue samples |                                      |   |                                |   |
| Human cardiac muscle                     | x | Human placenta        | x                              | Clear cell carcinoma of human kidney | x | Human hepatocellular carcinoma | ✓ |
| Human cerebrum                           | x | Human skeletal muscle | x                              | Human bladder cancer                 | ✓ | Human lung carcinoma           | ✓ |
| Human colon                              | ✓ | Human skin            | ✓                              | Human breast carcinoma               | ✓ | Human melanoma                 | ✓ |
| Human endometrium                        | ✓ | Human spleen          | ✓                              | Human cervical carcinoma             | ✓ | Human ovarian carcinoma        | ✓ |
| Human kidney                             | ✓ | Human stomach         | ✓                              | Human colon carcinoma                | ✓ | Human pancreatic carcinoma     | ✓ |
| Human liver                              | ✓ | Human testis          | ✓                              | Human endometrial carcinoma          | ✓ | Human prostatic hyperplasia    | ✓ |
| Human lung                               | ✓ | Human thyroid         | ✓                              | Human gastric adenocarcinoma         | ✓ | Human thyroid carcinoma        | ✓ |
| Human mammary gland                      | ✓ | Human tonsil          | ✓                              | Human glioma                         | ✓ |                                |   |
| Human pancreas                           | ✓ |                       |                                |                                      |   |                                |   |


Tissue Microarrays stained for "Anti-SHP1 antibody [Y476]" using "ab32559" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab32559 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SHP1 antibody [Y476] (ab32559)


Why choose a recombinant antibody?




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Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-SHP1 antibody [Y476] (ab32559)

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