


# Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free ab221607

KO 評価済 リコンビナント RabMAb

画像数 13

### 製品の概要

製品名	Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free
製品の詳細	Rabbit monoclonal [EPR3132] to CD90 / Thy1 - Low endotoxin, Azide free
由来種	Rabbit
アプリケーション	<b>適用あり:</b> IHC-P, WB <b>適用なし:</b> Flow Cyt or IP
種交差性	<b>交差種:</b> Human <b>交差が予測される動物種:</b> Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Wild-type U-2 OS cell lysate, Human fetal brain and fetal kidney lysate. IHC-P: Human lung adenocarcinoma, pancreatic carcinoma, cervical carcinoma, breast carcinoma, colon carcinoma, glioma, tonsil and brain tissues, human skeletal muscle vessels tissue and normal human tonsil vessels tissues.
特記事項	<p>ab221607 is the carrier-free version of <a href="#">ab92574</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>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>.</p> <p>Our <b>Low endotoxin, azide-free formats</b> have low endotoxin level (<math>\leq 1</math> EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional</p>

assays.

## 製品の特性

### 製品の状態

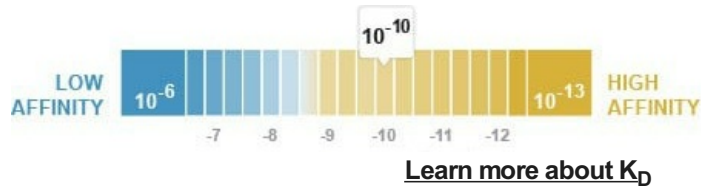
Liquid

### 保存方法

Shipped at 4°C. Store at +4°C. Do Not Freeze.

### 解離定数 ( $K_D$ 値)

$K_D = 1.57 \times 10^{-10}$  M



### バッファー

pH: 7.20

Constituent: PBS

### キャリア・フリー

はい

### 精製度

Protein A purified

### ポリ/モノ

モノクローナル

### クローン名

EPR3132

### 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ab221607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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. The use of an HRP/AP polymerized antibody is recommended for a secondary antibody.
WB		Use at an assay dependent concentration. Observed molecular weight may vary depending on the glycosylation level of the target.

### 追加情報

Is unsuitable for Flow Cyt or IP.

## ターゲット情報

### 機能

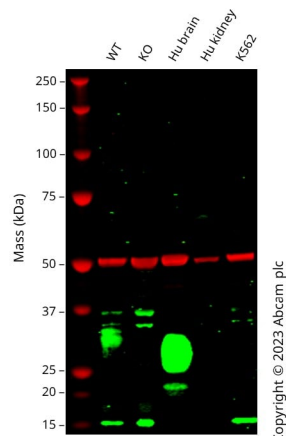
May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain.

### 配列類似性

Contains 1 Ig-like V-type (immunoglobulin-like) domain.

### 細胞内局在

Cell membrane.



Western blot - Anti-CD90 / Thy1 antibody  
[EPR3132] - Low endotoxin, Azide free (ab221607)

**All lanes :** Anti-CD90 / Thy1 antibody [EPR3132] ([ab92574](#)) at 1/1000 dilution

**Lane 1 :** Wild-type U-2 OS cell lysate

**Lane 2 :** THY1 knockout U-2 OS cell lysate

**Lane 3 :** Human brain cell lysate

**Lane 4 :** Human kidney cell lysate

**Lane 5 :** K562 cell lysate

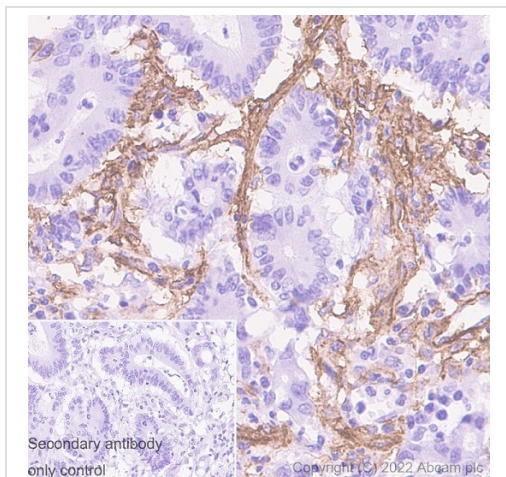
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Observed band size:** 25-37 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab92574](#)).

Anti-THY1 antibody [EPR3132] ([ab92574](#)) staining at 1/1000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, [ab92574](#) was shown to bind specifically to THY1. A band was observed at 25-37 kDa in wild-type U-2 OS cell lysates with no signal observed at this size in THY1 knockout cell line [ab262490](#) (knockout cell lysate [ab263925](#)). To generate this image, wild-type and THY1 knockout U-2 OS cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween<sup>®</sup> 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.

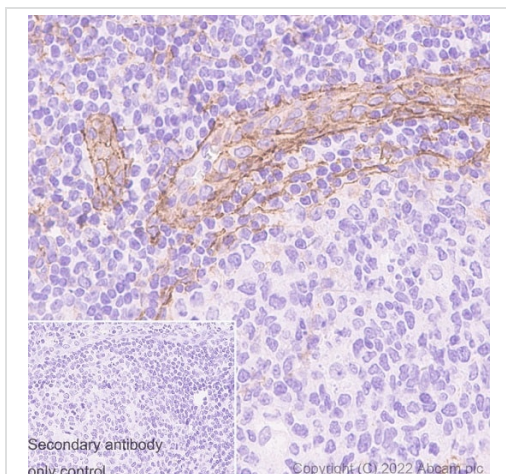


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

Immunohistochemical analysis of paraffin-embedded Human colon carcinoma tissue labelling CD90 / Thy1 with [ab92574](#) at 1/400 dilution (0.26 µg/ml) followed by Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) secondary antibody at a ready to use concentration. Positive staining on the stroma in human colon carcinoma. The section was incubated with [ab92574](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab92574](#)).

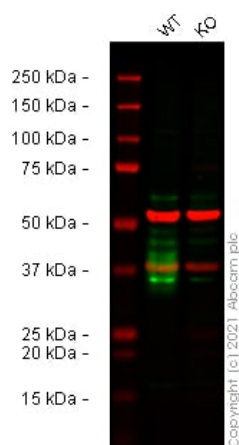


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labelling CD90 / Thy1 with [ab92574](#) at 1/400 dilution (0.26 µg/ml) followed by Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) secondary antibody at a ready to use concentration. Positive staining on human tonsil. The section was incubated with [ab92574](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes.#

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab92574](#)).



Western blot - Anti-CD90 / Thy1 antibody  
[EPR3132] - Low endotoxin, Azide free (ab221607)

**All lanes :** Anti-CD90 / Thy1 antibody [EPR3132] ([ab92574](#)) at 1/500 dilution

**Lane 1 :** Wild-type U-2 OS cell lysate

**Lane 2 :** THY1 knockout U-2 OS cell lysate

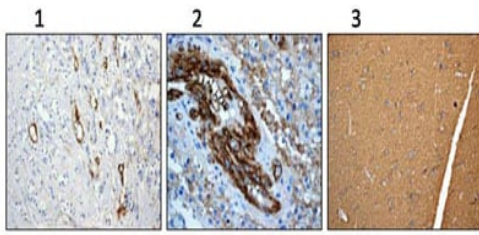
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Observed band size:** 35-45 kDa

False colour image of Western blot: Anti-CD90 / Thy1 antibody [EPR3132] staining at 1/500 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, [ab92574](#) was shown to bind specifically to CD90 / Thy1. A band was observed at 35-45 kDa in wild-type U-2 OS cell lysates with no signal observed at this size in Thy1 knockout cell line [ab262490](#) (knockout cell lysate [ab263925](#)). To generate this image, wild-type and Thy1 knockout U-2 OS cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab92574](#)).

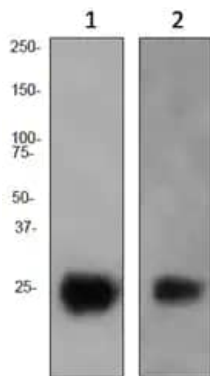


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

**ab92574** at 1/100 dilution staining CD90 / Thy1 in (1) Human breast carcinoma, (2) Human glioma & (3) Human brain tissue by Immunohistochemistry Formalin-fixed, Paraffin-embedded tissue. Detection: DAB staining.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab92574**).

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Western blot - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

**All lanes** : Anti-CD90 / Thy1 antibody [EPR3132] (**ab92574**) at 1/1000 dilution

**Lane 1** : Human fetal brain lysate

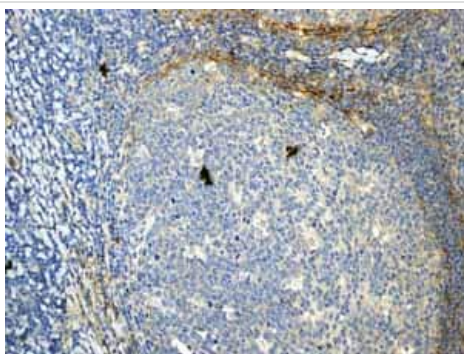
**Lane 2** : Human fetal kidney lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : HRP labelled goat anti-rabbit at 1/2000 dilution

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab92574**).



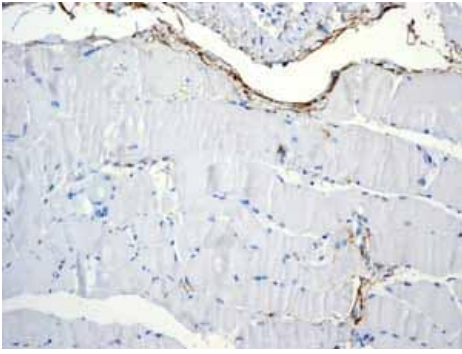
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

**ab92574** showing positive staining in Normal human tonsil vessels tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab92574**).

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



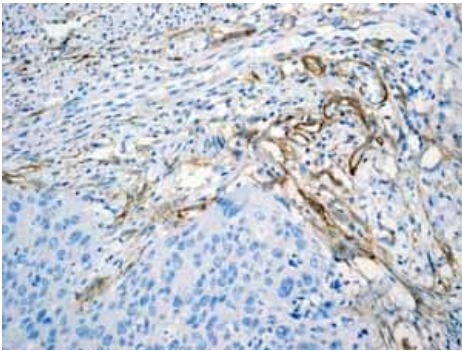


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

**ab92574** showing positive staining in human Skeletal muscle vessels tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab92574**).

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

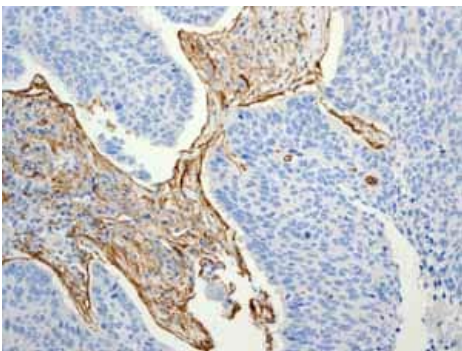


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

**ab92574** showing positive staining in human Cervical carcinoma tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab92574**).

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

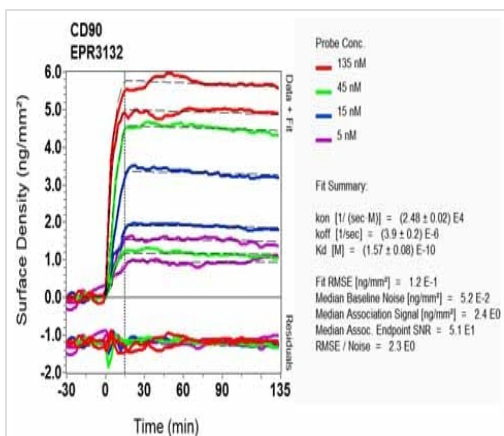


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

**ab92574** showing positive staining in human Lung adenocarcinoma tissue.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab92574**).

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



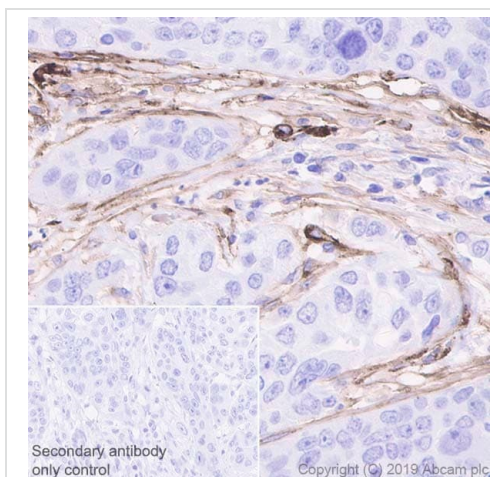
SPR Scanning - Anti-CD90 / Thy1 antibody  
[EPR3132] - Low endotoxin, Azide free (ab221607)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

**[Click here to learn more about  \$K\_D\$](#)**

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab92574](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody  
[EPR3132] - Low endotoxin, Azide free (ab221607)

Immunohistochemical analysis of paraffin-embedded Human pancreatic carcinoma tissue labeling CD90/Thy1 with ab221607 at 1/4000 dilution (0.26 µg/ml), followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on stromal cells in human pancreatic carcinoma. Counterstained with Hematoxylin. Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab92574](#)).



### Why choose a recombinant antibody?



**Research with confidence**  
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-CD90 / Thy1 antibody [EPR3132] - Low  
endotoxin, Azide free (ab221607)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
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