

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

敲除验证
重组
RabMAb

13 图像

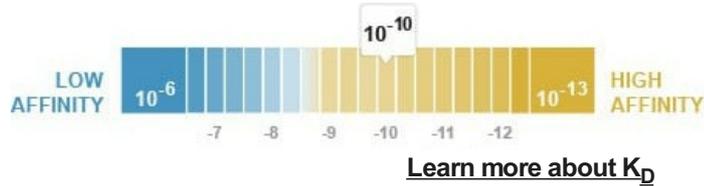
概述

产品名称	Anti-CD90 / Thy1 抗体[EPR3132] - Low endotoxin, Azide free
描述	兔单克隆抗体[EPR3132] to CD90 / Thy1 - Low endotoxin, Azide free
宿主	Rabbit
经测试应用	适用于: IHC-P, WB 不适用于: Flow Cyt or IP
种属反应性	与反应: Human 预测可用于: Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	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.
常规说明	<p>ab221607 is the carrier-free version of ab92574.</p> <p>Our carrier-free 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 conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <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[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Our Low endotoxin, azide-free formats have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional</p>

assays.

性能

形式 Liquid
存放说明 Shipped at 4°C. Store at +4°C. Do Not Freeze.
解离常数 (K_D) K_D = 1.57 x 10⁻¹⁰ M



存储溶液 pH: 7.20
Constituent: PBS
无载体 是
纯度 Protein A purified
克隆 单克隆
克隆编号 EPR3132
同种型 IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab221607于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

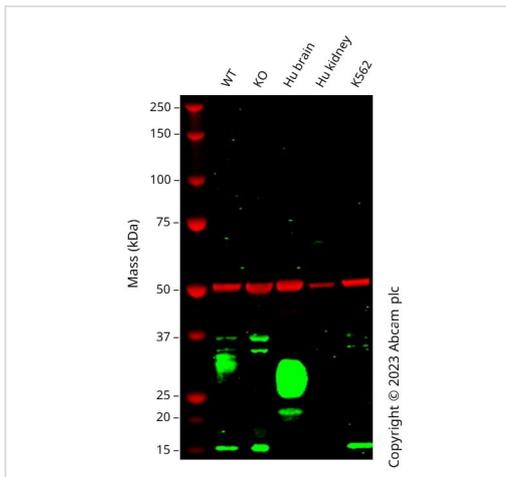
应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol. The use of an HRP/AP polymerized antibody is recommended for a secondary antibody.
WB		Use at an assay dependent concentration.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

应用说明 Is unsuitable for Flow Cyt or IP.

靶标

功能 May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain.
序列相似性 Contains 1 Ig-like V-type (immunoglobulin-like) domain.
细胞定位 Cell membrane.

图片



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

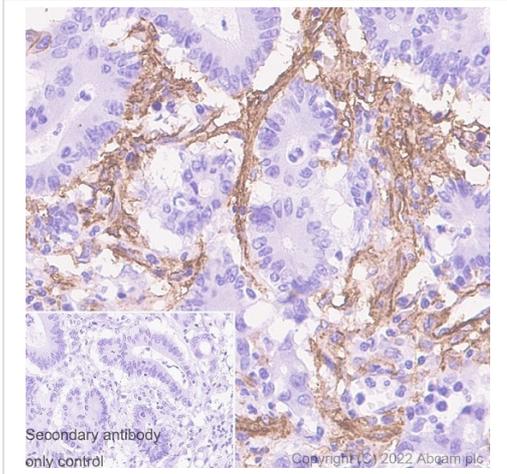
Lysates/proteins at 20 µg per lane.

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[®] 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.

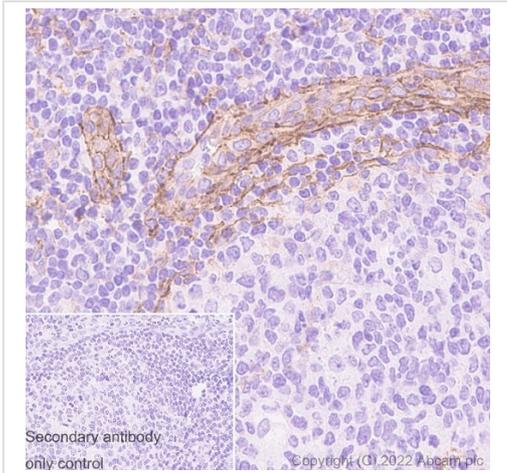


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

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**).

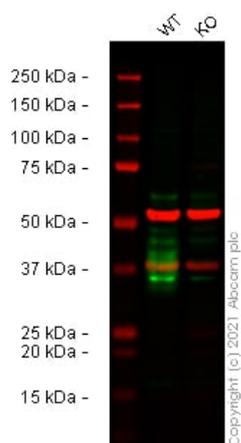


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

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

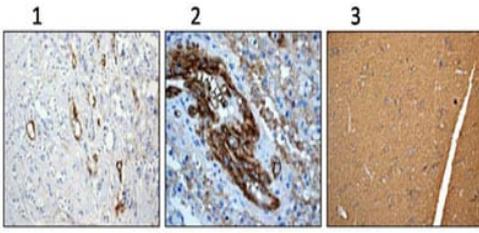
Lysates/proteins at 20 µg per lane.

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](#)).

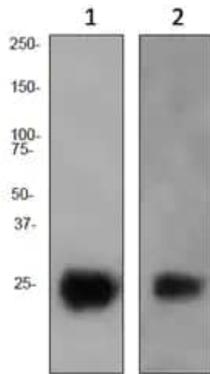


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

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

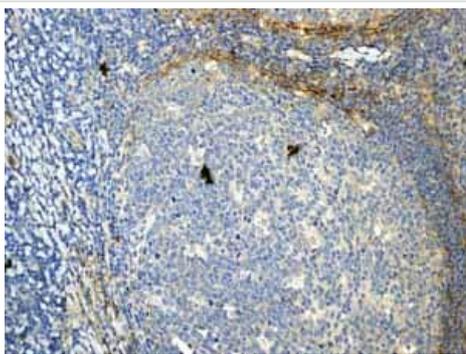
Lane 2 : Human fetal kidney lysate

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**).

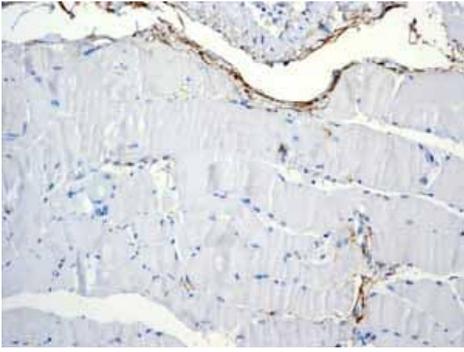


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

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.

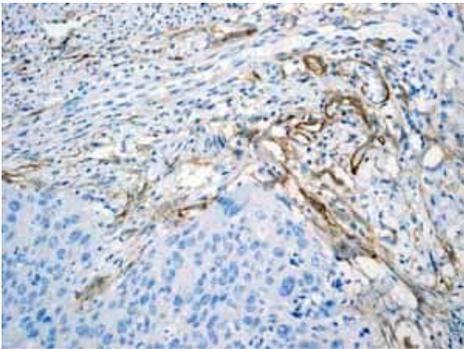


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

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.

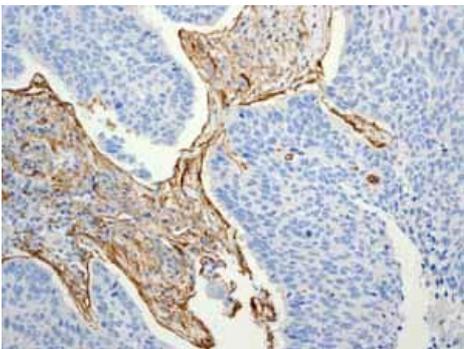


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

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.

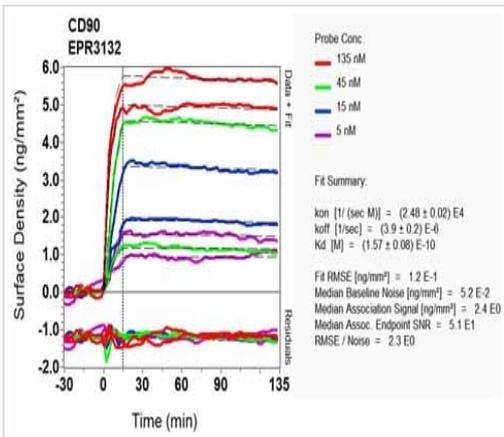


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3132] - Low endotoxin, Azide free (ab221607)

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.



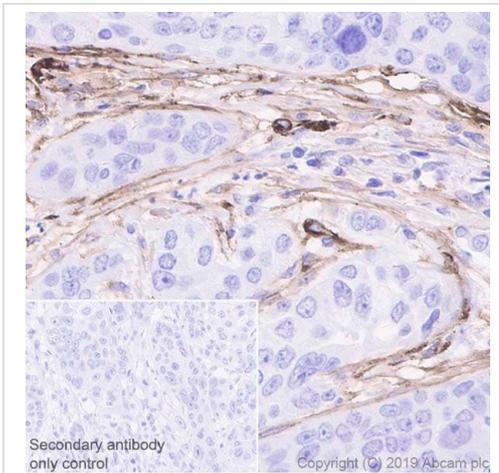
SPR Scanning - Anti-CD90 / Thy1 antibody
 [EPR3132] - Low endotoxin, Azide free (ab221607)

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 μ g/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)

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