abcam

Product datasheet

# Anti-CD90 / Thy1 antibody [MRC OX-7] - BSA and Azide free ab222781

**1 References** 3 图像

## 概述

| | |
|---|---|
| **产品名称** | Anti-CD90 / Thy1抗体[MRC OX-7] - BSA and Azide free |
| **描述** | 小鼠单克隆抗体[MRC OX-7] to CD90 / Thy1 - BSA and Azide free |
| **宿主** | Mouse |
| **经测试应用** | **适用于:** WB, Flow Cyt (Intra), ICC |
| **种属反应性** | **与反应:** Rat<br>**预测可用于:** Mouse, Rabbit, Horse, Guinea pig |
| **免疫原** | Full length protein. This information is proprietary to Abcam and/or its suppliers. |
| **阳性对照** | WB: rat brain tissue lysate and PC12 whole cell lysate. IF/ICC: PC12 cells. Flow Cyt: Rat splenocytes. |
| **常规说明** | The affinity of the Fab' of MRC OX-7 for rat Thy-1 is 3 x $10^9 m^{-1}$ and for mouse Thy-1.1 is 3 x $10^8 m^{-1}$.<br>ab222781 is the carrier-free version of **ab225**.<br>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**.<br>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.<br>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.<br>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.<br>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.<br>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. |

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

## 性能

| | |
|---|---|
| **形式** | Liquid |
| **存放说明** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| **存储溶液** | pH: 7.40<br>Constituent: PBS |
| **无载体** | **是** |
| **纯度** | Protein G purified |
| **克隆** | 单克隆 |
| **克隆编号** | MRC OX-7 |
| **骨髓瘤** | NS1 |
| **同种型** | IgG1 |
| **轻链类型** | kappa |

## 应用

**The Abpromise guarantee** **Abpromise™承诺保证使用ab222781于以下的经测试应用**

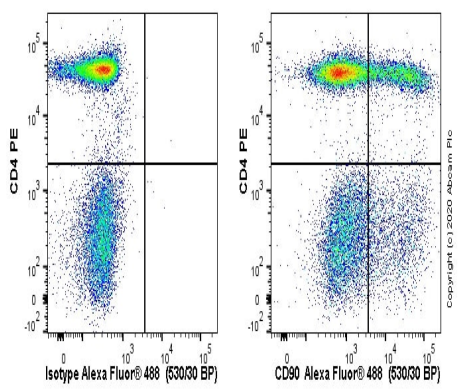
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

| 应用 | Ab评论 | 说明 |
|---|---|---|
| **WB** | | Use a concentration of 5 µg/ml. Detects a band of approximately 35-37 kDa (predicted molecular weight: 17 kDa).<br>Observed molecular weight may vary depending on the glycosylation level of the target. |
| **Flow Cyt (Intra)** | | Use at an assay dependent concentration. |
| **ICC** | | Use at an assay dependent concentration. |

## 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



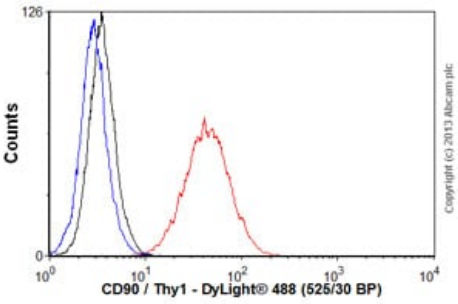

Flow Cytometry - Anti-CD90 / Thy1 antibody [MRC OX-7] - BSA and Azide free (ab222781)

Flow cytometry staining of Lewis rat splenocytes with ab222781 (right) or mouse IgG1κ (**ab170190**) isotype (left). Cells were incubated for 30 min on ice in 1x PBS containing 10 % rat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab222781) or mouse IgG1κ (**ab170190**) isotype ($1x10^6$ in 100 µL at 0.2 µg/ml) for 30 min on ice.

The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor ® 488, pre-adsorbed) (**ab150117**) was used at dilution for 30 min on ice.

The cells were simultaneously stained with CD4.

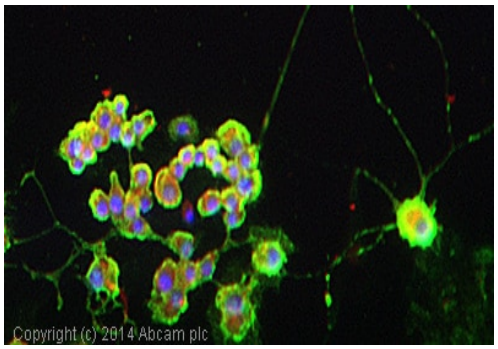
Acquisition of >30000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter. Events were gated on live CD3 positive T cells.




Flow Cytometry - Anti-CD90 / Thy1 antibody [MRC OX-7] - BSA and Azide free (ab222781)

The flow cytometry data shown was generated using the same antibody clone in a different buffer formulation (**ab225**).

Overlay histogram showing PC12 cells stained with **ab225** (red line). The cells were fixed with 4% paraformaldehyde (10 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab225**, 0.1µg/$1x10^6$ cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [B11/6] (**ab91353**, 1µg/$1x10^6$ cells) used under the same conditions. Unlabelled sample (blue line). Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive result in 80% methanol (5 min) fixed PC12 cells used under the same conditions.




Immunocytochemistry/ Immunofluorescence - Anti-CD90 / Thy1 antibody [MRC OX-7] - BSA and Azide free (ab222781)

The ICC/IF data shown was generated using the same antibody clone in a different buffer formulation (**ab225**).

**ab225** stained PC12 cells. The cells were 100% methanol fixed for 5 minutes at -20°C and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1hour at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab225** at 5µg/ml) overnight at +4°C. The secondary antibody (pseudo-colored green) was Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (**ab150117**) used at a 1/1000 dilution for 1hour at room temperature. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200

dilution for 1hour at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.

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

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