abcam

Product datasheet

Anti-CD90 / Thy1 antibody [MRC OX-7] - Hematopoietic Stem Cell Marker ab225

12 Abreviews 109 References 6 图像

概述

产品名称	Anti-CD90 / Thy1抗体[MRC OX-7] - Hematopoietic Stem Cell Marker
描述	小鼠单克隆抗体[MRC OX-7] to CD90 / Thy1 - Hematopoietic Stem Cell Marker
宿主	Mouse
经测试应用	**适用于:** ICC, WB, Flow Cyt (Intra)
种属反应性	**与反应:** Rat **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. ICC: PC12 cells. Flow Cyt (Intra): PC12 cells.
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 $10^8 m^{-1}$. This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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 Preservative: 0.02% Sodium azide Constituent: PBS

	Some batches contain 6.97% L-Arginine as a stabilizing agent. For lot-specific buffer information, please contact our Scientific Support team.
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ab225于以下的经测试应用

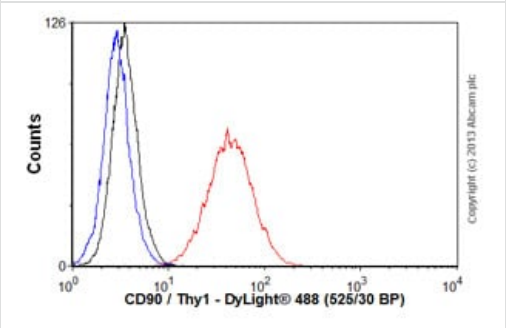
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC	★★★★★ (1)	Use a concentration of 1 µg/ml.
WB	★★★☆☆ (2)	Use a concentration of 5 µg/ml. Detects a band of approximately 35-37 kDa (predicted molecular weight: 17 kDa). Observed molecular weight may vary depending on the glycosylation level of the target.
Flow Cyt (Intra)		Use 0.1µg for 10^{1-6} cells.

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 (Intracellular) - Anti-CD90 / Thy1 antibody [MRC OX-7] - Hematopoietic Stem Cell Marker (ab225)

Overlay histogram showing PC12 cells stained with ab225 (red line).

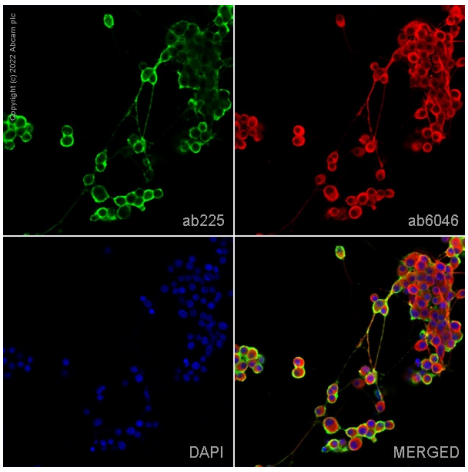
The cells were fixed with 4% paraformaldehyde (10 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab225, 0.1µg/1x10^6 cells) for 30 min at 22ºC.

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, 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.

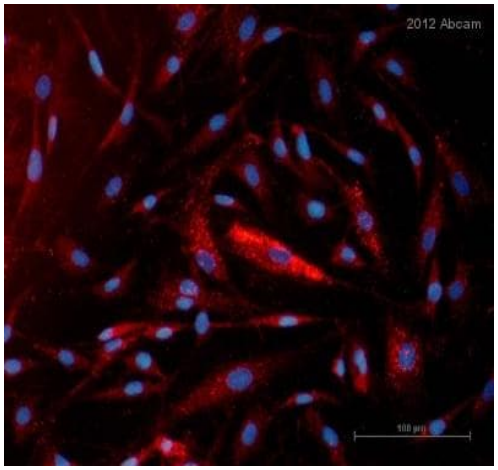
Ab225 gave a positive result in 80% methanol (5 min) fixed PC12 cells used under the same conditions.



Immunocytochemistry - Anti-CD90 / Thy1 antibody [MRC OX-7] - Hematopoietic Stem Cell Marker (ab225)

ab225 staining CD90 / Thy1 in PC12 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab225 at 1µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150121**, Goat polyclonal Secondary Antibody to Mouse IgM - mu chain (Alexa Fluor® 488) at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

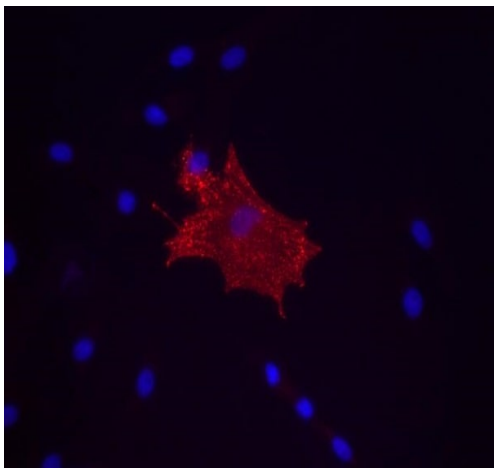
Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Immunocytochemistry - Anti-CD90 / Thy1 antibody [MRC OX-7] - Hematopoietic Stem Cell Marker (ab225)

This image is courtesy of an abreview submitted by Vega Villar, University of Leon.

Immunocytochemistry/ Immunofluorescence analysis of horse adipose and bone marrow stem cells labeling CD90 / Thy1 with ab225 at 1/1000 dilution. Cells were fixed in paraformaldehyde and permeabilized with Triton x100 0.1%. The cells were blocked with 10% BSA for 30 minutes at 37°C, followed by staining with ab225 at 1/1000 for 12 hours in PBS+IGEPAL+BSA+10%NGS at 4°C. Goat F(ab')2 Anti-Mouse IgG - (Fab')2 (Biotin), pre-adsorbed (**ab5886**) was used as the secondary antibody at 1/400 dilution.



Immunocytochemistry - Anti-CD90 / Thy1 antibody [MRC OX-7] - Hematopoietic Stem Cell Marker (ab225)

This image is courtesy of an anonymous abreview.

Immunocytochemistry/ Immunofluorescence analysis of rat sciatic nerve schwann cells and fibroblasts labeling CD90 / Thy1 with ab225 at 1/400 dilution. Cells were fixed in paraformaldehyde and permeabilized with 0.5% Triton X-100. The cells were blocked with 5% serum for 1 hour at 21°C, followed by staining with ab225 at 1/400 in 0.2% BSA for 1 hour at 37°C. A polyclonal goat anti-mouse Alexa Fluor® 546 secondary antibody was used at 1/500 dilution.

Western blot - Anti-CD90 / Thy1 antibody [MRC OX-7] - Hematopoietic Stem Cell Marker (ab225)

All lanes : Anti-CD90 / Thy1 antibody [MRC OX-7] - Hematopoietic Stem Cell Marker (ab225) at 5 µg/ml

Lane 1 : Brain (Rat) Tissue Lysate
Lane 2 : PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/10000 dilution

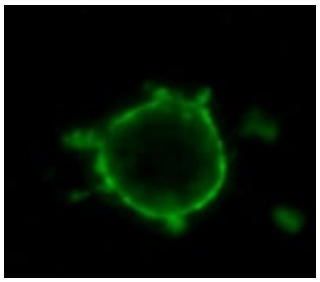
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 17 kDa
Observed band size: 35-37 kDa

Exposure time: 20 minutes

Rat CD90/Thy1 is N-glycosylated at three sites, giving rise to molecules with a range of molecular masses (25-37 kDa).



Immunocytochemistry - Anti-CD90 / Thy1 antibody [MRC OX-7] - Hematopoietic Stem Cell Marker (ab225)

This image was kindly supplied as part of the review submitted by Nick Voilley. Rat retinal ganglion cell labelled with ab225 as a primary antibody and an anti-mouse F(ab)' 2 coupled to Alexa488 as a secondary antibody. The cell is approximately 15 micrometers in diameter. Only the cells labelled in green in the culture bear action potentials when stimulated. These three elements (reactivity to ab225, size and elecrophysiological parameters) clearly indicate the cell is a ganglion cell.

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