


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

★★★★☆ **12 Abreviews** **109 References** **画像数 6**

製品の概要

製品名	Anti-CD90 / Thy1 antibody [MRC OX-7] - Hematopoietic Stem Cell Marker
製品の詳細	Mouse monoclonal [MRC OX-7] to CD90 / Thy1 - Hematopoietic Stem Cell Marker
由来種	Mouse
アプリケーション	適用あり: ICC, WB, Flow Cyt (Intra)
種交差性	交差種: Rat 交差が予測される動物種: Mouse, Rabbit, Horse, Guinea pig 
免疫原	Full length protein. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Rat brain tissue lysate and PC12 whole cell lysate. ICC: PC12 cells. Flow Cyt (Intra): PC12 cells.
特記事項	<p>The affinity of the Fab' of MRC OX-7 for rat Thy-1 is $3 \times 10^9 \text{m}^{-1}$ and for mouse Thy-1.1 is $3 \times 10^8 \text{m}^{-1}$.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>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.</p> <p>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</p>

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 or -80°C. Avoid freeze / thaw cycle.
バッファー	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.

精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	MRC OX-7
ミエローマ	NS1
アイソタイプ	IgG1
軽鎖の種類	kappa

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ab225の使用に適用されます

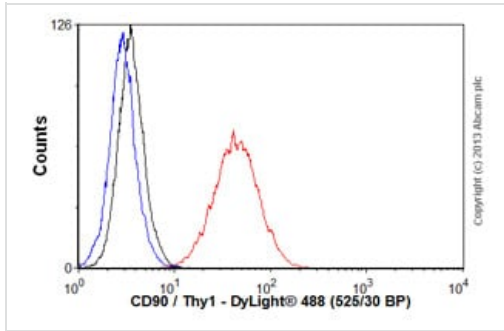
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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.

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.

画像



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).

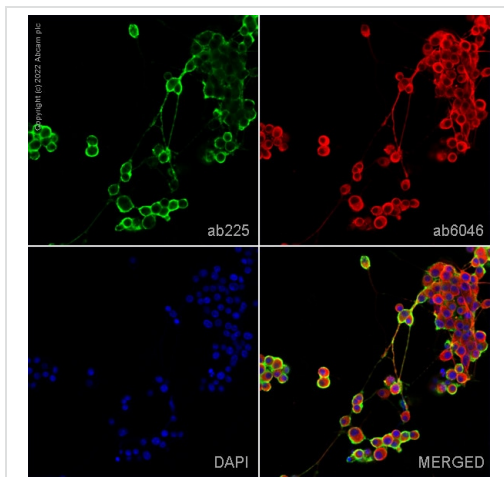
The cells were fixed with 4% paraformaldehyde (10 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab225, 0.1µg/1x10⁶ cells) for 30 min at 22°C.

The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) **ab96879** at 1/500 dilution for 30 min at 22°C.

Isotype control antibody (black line, mouse IgG1 [B11/6], **ab91353**, 1µg/1x10⁶ 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.

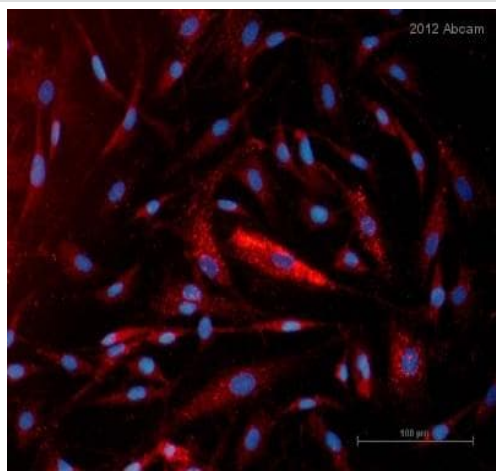
Ab225 gave a positive result in 80% methanol (5 min) fixed PC12 cells used under the same conditions.



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).

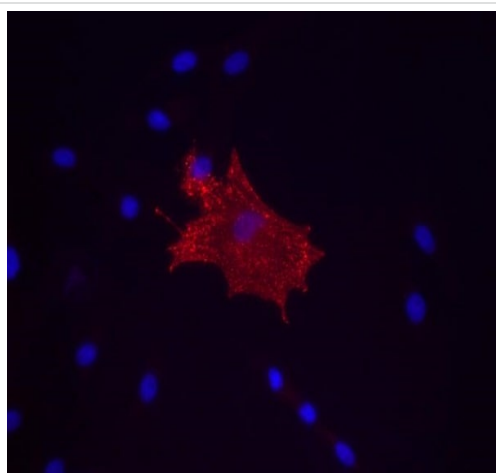
Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



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.

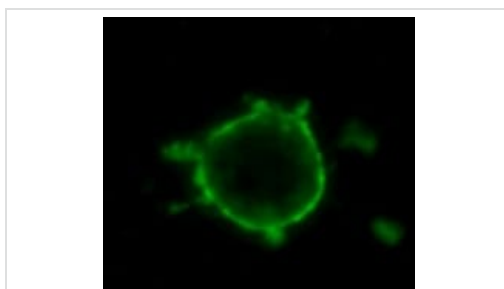
Performed under reducing conditions.

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 electrophysiological parameters) clearly indicate the cell is a ganglion cell.

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