

## Product datasheet

# Anti-CD90 / Thy1 antibody [EPR3133] ab133350

KO VALIDATED Recombinant RabMAb

★★★★☆ 6 Abreviews 61 References 5 Images

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-CD90 / Thy1 antibody [EPR3133]   |
| <b>Description</b>         | Rabbit monoclonal [EPR3133] to CD90 / Thy1  |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> IHC-P, WB, ICC/IF<br><b>Unsuitable for:</b> Flow Cyt or IP   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.   |
| <b>Positive control</b>    | IHC: Human tonsil tissue; WB: Human glioma and brain tissue lysate; ICC/IF: Jurkat cells.   |
| <b>General notes</b>       | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</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>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p> |

### Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.   |
| <b>Storage buffer</b>       | pH: 7.20<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| <b>Purity</b>               | Protein A purified   |
| <b>Clonality</b>            | Monoclonal   |
| <b>Clone number</b>         | EPR3133  |

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab133350 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes   |
|-------------|-----------|---|
| IHC-P       | ★★★★☆ (5) | 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.                        |
| WB          |           | 1/1000 - 1/5000. Predicted molecular weight: 17 kDa. Observed molecular weight may vary depending on the glycosylation level of the target. |
| ICC/IF      | ★★★★★ (1) | 1/50.   |

### Application notes

Is unsuitable for Flow Cyt or IP.

## Target

### Function

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

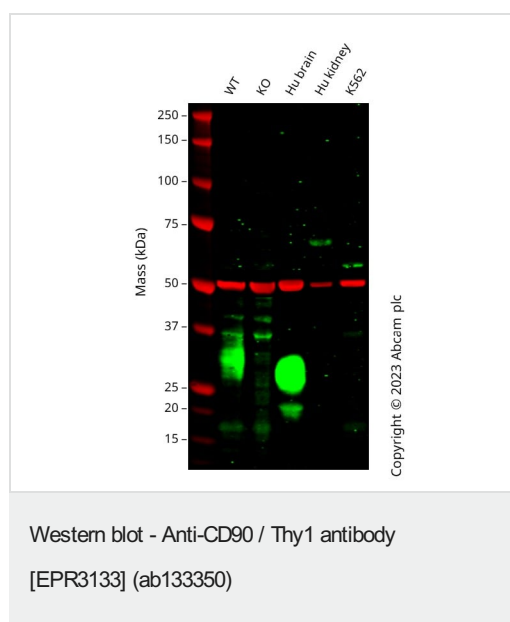
### Sequence similarities

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

### Cellular localization

Cell membrane.

## Images



**All lanes** : Anti-CD90 / Thy1 antibody [EPR3133] (ab133350) at 1/2000 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

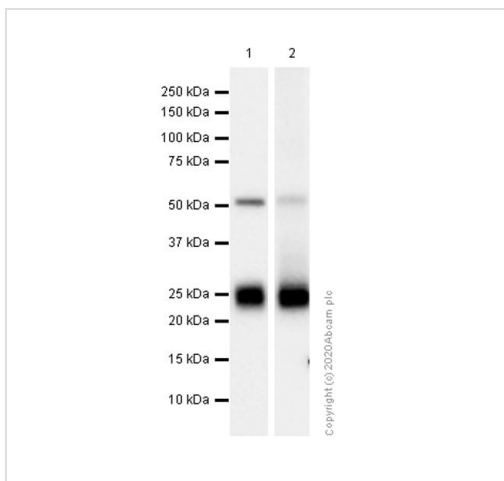
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 17 kDa

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

Anti-THY1 antibody [EPR3133] (ab133350) staining at 1/2000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab133350 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.



Western blot - Anti-CD90 / Thy1 antibody [EPR3133] (ab133350)

**All lanes :** Anti-CD90 / Thy1 antibody [EPR3133] (ab133350) at 1/1000 dilution (Purified)

**Lane 1 :** Human glioma lysate

**Lane 2 :** Human brain lysate

Lysates/proteins at 15 µg per lane.

#### Secondary

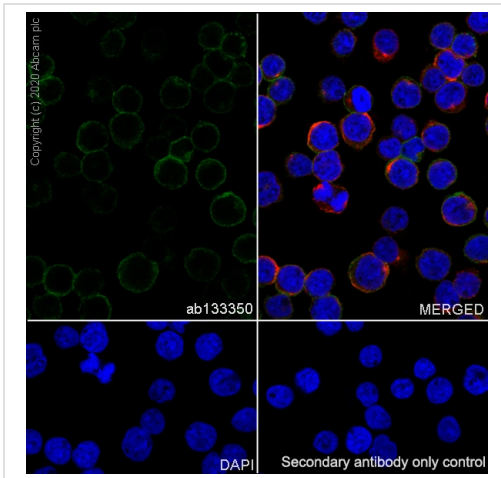
**All lanes :** Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

**Predicted band size:** 17 kDa

**Observed band size:** 25-35 kDa

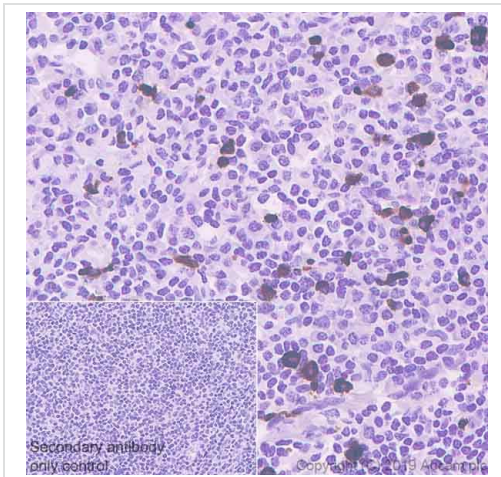
The molecular weight observed is consistent with what has been described in the literature (PMID: 24116172 and PMID: 30177788).

Blocking Buffer and concentration: 5% NFDM/TBST



Immunocytochemistry/ Immunofluorescence - Anti-CD90 / Thy1 antibody [EPR3133] (ab133350)

Immunocytochemistry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling CD90 / Thy1 with Purified ab133350 at 1:50 dilution (2.44 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD90 / Thy1 antibody [EPR3133] (ab133350)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue sections labeling CD90 / Thy1 with Purified ab133350 at 1:4000 dilution (0.03 µg/ml). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

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 [EPR3133] (ab133350)

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

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