Product datasheet

Anti-CD90 / Thy1 antibody [AF-9] ab23894

Overview

Product name: Anti-CD90 / Thy1 antibody [AF-9]
Description: Mouse monoclonal [AF-9] to CD90 / Thy1
Host species: Mouse
Tested applications: Suitable for: IHC-Fr, Flow Cyt, ELISA
Species reactivity: Reacts with: Human
Immunogen: Tissue/ cell preparation (Human) T lymphoma cells.
Positive control: FC: Jurkat cells. IHC-Fr: Human myometrial tissue.

Properties

Form: Liquid
Storage buffer: Preservative: 0.05% Sodium azide
Constituent: PBS
Purity: Protein G purified
Clonality: Monoclonal
Clone number: AF-9
Isotype: IgG1

Applications

Our Abpromise guarantee covers the use of ab23894 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IHC-Fr</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration.</td>
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</table>
**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.

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**Target**

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**Images**

Overlay histogram showing Jurkat cells stained with ab23894 (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 (ab23894, 1μg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIG1] (ab91353, 1μg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.
Immunohistochemistry (Frozen sections) - Anti-CD90 / Thy1 antibody [AF-9] (ab23894)
This image is courtesy of an anonymous Abreview

ab23894 staining CD90/Thy1 in human myometrial tissue sections by IHC-Fr (frozen sections).

Tissue was fixed with paraformaldehyde and blocked with 5% serum for 1 hour at 22°C. Samples were incubated with primary antibody (1/50) for 18 hours. An undiluted biotin-conjugated donkey anti-mouse IgG polyclonal was used as secondary antibody.

Dziasko MA et al., PLoS One, 2014; 9(4): e94283., Fig. 5.; doi: 10.1371/journal.pone.0094283

Immunohistochemistry (Frozen sections) - Anti-CD90 / Thy1 antibody [AF-9] (ab23894)

ab23894 staining CD90 / Thy1 in Limbal biopsies from Human corneas by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with 4% paraformaldehyde, permeabilized with 0.5% Triton and blocked with 10% goat serum in PBS for 90 minutes at room temperature. Samples were incubated with primary antibody overnight at 4°C. An Alexa Fluor® 594-conjugated Goat anti-mouse polyclonal (1/250) was used as the secondary antibody.

CD90 expression is markedly increased by limbal stromal cells underlying the limbal crypts (E) compared to the non-crypt rich limbus (C). Central corneal sections were used as a negative control (A). Sections were counterstained with DAPI (blue). Scale bars: 50um.

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