Monoclonal Antibody to CD90 - Purified

**Alternate names:** CDw90, THY1, Thy-1, Thy-1 membrane glycoprotein

**Catalog No.:** SM049PS

**Quantity:** 0.1 mg

**Concentration:** 1.0 mg/ml

**Background:** Thy1.1 is expressed on a variety of cell types including thymocytes, neuronal cells, stem cells, T lymphocytes (mouse), immature B cells (rat) and connective tissues.

**Uniprot ID:** P01831

**NCBI:** NP_033408.1

**GeneID:** 21838

**Host / Isotype:** Mouse / IgG1

**Clone:** OX-7

**Immunogen:** Rat Thy1 antigen.

**Remarks:** Spleen cells from immunised BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.

**Format:**

- **State:** Liquid purified IgG fraction.
- **Purification:** Affinity Chromatography on Protein G.
- **Buffer System:** PBS, pH 7.2 containing 0.09% Sodium Azide as preservative.

**Applications:**

- Western Blot.
- Immunoprecipitation.
- Immunohistochemistry on Frozen Sections.
- Flow Cytometry: Use 10 µl of 1/50-1/100 diluted antibody to label 10e6 cells in 100 µl (Rat thymocytes).

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:**

This antibody recognises CD90, also known as Thy1.1. Since Thy1.1 is a monomorphic determinant in rat but polymorphic in mice, clone MRC OX-7 reacts with Thy1.1 mice e.g. AKR and FVB mice, but not Thy1.2 mice such as CBA and BALB/c. Clone MRC OX-7 has been demonstrated to promote neurite outgrowths on peripherin-stained sympathetic neurons, using fluorescence microscopy. This clone has been reported to induce glomerular nephritis in Wistar rats (8).

**Aff. Const.** of the Fab’ of MRC OX-7 for:

- Rat: 3 x 10e9m-1
- Mouse: 3 x 10e8m-1

**Species:** Rat. Cross reacts with Mouse, Rabbit and Guinea Pig.

Other species not tested.
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Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General References:

For research and in vitro use only. Not for diagnostic or therapeutic work. Material SafetyDatasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com