**Product Description**

The OX-7 antibody reacts with rat CD90 (Thy-1) and mouse CD90.1 (Thy-1.1), the latter being an allelic form of CD90 expressed by mouse strains AKR/J, PL, and FVB/N. The OX-7 antibody does not react with CD90.2, which is expressed by many mouse strains, including CBA and BALB/c. CD90 is a GPI-linked membrane glycoprotein and member of the immunoglobulin superfamily. The 25 kDa core protein is N-glycosylated at three sites, giving rise to molecules with a range of molecular masses (25 - 37 kDa). In the rat, CD90 is expressed by several cell types, including hematopoietic stem cells, immature B cells, thymocytes and neurons. In mouse strains expressing CD90.1, it is found on early-stage hematopoietic cells in the bone marrow, thymocytes, and circulating mature T cells. The OX-7 antibody has been reported to induce leukocyte activation, glomerular nephritis, apoptosis in glomerular mesangial cells, and vascular permeability.

**Target Antigen Name:** CD90/CD90.1  
**Alternative Names:** Thy-1, Thy-1.1  
**Gene ID:** 21838/24832  
**Species Reactivity:** Mouse (AKR/J and PL mouse strains), Rat, Guinea Pig, Rabbit  
**Host Species:** Mouse (BALB/c)  
**Clonality:** Monoclonal  
**Clone:** OX-7  
**Isotype:** IgG1, kappa  
**Immunogen:** Rat thymocyte CD90 (Thy-1) antigen  
**Conjugate:** APC

**Applications**

**Verified:** FC  
**Reported:** FC  
**Special Applications:** This antibody clone has been verified for purity assessments of cells isolated from compatible mouse strains with EasySep™ kits, including EasySep™ Mouse T Cell Isolation Kit (Catalog #19851).

**Properties**

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide  
**Purification:** The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC.  
**Stability and Storage:** Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.  
**Directions for Use:** For flow cytometry the suggested use of this antibody is ≤ 0.06 μg per 1 x 10^6 cells in 100 μL volume. It is recommended that the antibody be titrated for optimal performance for each application.
Data

(A) Flow cytometry analysis of Sprague-Dawley rat brain cells labeled with Anti-Rat CD90 Antibody, Clone OX-7, APC (filled histogram) or a mouse IgG1, kappa isotype control antibody, APC (solid line histogram).

(B) Flow cytometry analysis of Sprague-Dawley rat thymocytes labeled with Anti-Rat CD90 Antibody, Clone OX-7, APC (filled histogram) or a mouse IgG1, kappa isotype control antibody, APC (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References


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