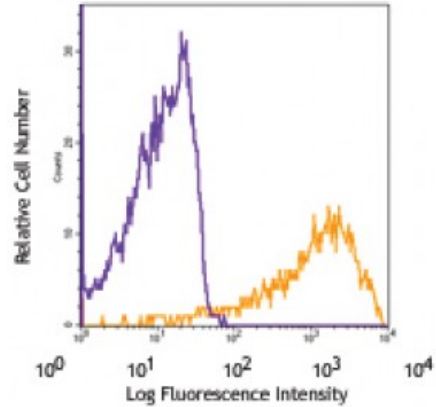


Biotin anti-rat CD90/mouse CD90.1 (Thy-1.1)

Catalog # / Size: 1612550 / 500 µg
Clone: OX-7
Isotype: Mouse IgG1, κ
Immunogen: Rat thymocyte Thy-1 antigen
Reactivity: Other
Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



LOU rat thymocytes stained with OX-7 biotin, followed by Sav-PE

Applications:

Applications: Flow Cytometry
Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: The OX-7 antibody reacts with rat CD90 and mouse CD90.1 (Thy-1.1) (which is expressed by mouse strains of AKR/J, PL, and FVB/N), but not mouse CD90.2.

Additional reported applications (for the relevant formats) include: immunohistochemical⁷ and immunofluorescent⁸ staining of acetone-fixed frozen sections and zinc-fixed paraffin-embedded sections, immunoprecipitation¹, Western blotting¹, *in vitro* activation of leukocytes², induction of endothelial cell permeability³, induction of apoptosis in glomerular mesangial cells, and induction of glomerulonephritis *in vivo*⁴.

- Application References:**
1. Jeng CJ, *et al.* 1998. *J. Cell Biol.* 140:685. (IP, WB)
 2. Nakashima I, *et al.* 1991. *J. Immunol.* 147:1153.
 3. Ishizu A, *et al.* 1995. *Int. Immunol.* 7:1939.
 4. Eitner F. 1997. *Kidney Int.* 51:69.
 5. Kawachi H, *et al.* 1992. *Clin. Exp. Immunol.* 88:399. (WB)
 6. Dyer KD, *et al.* 2007. *J. Immunol.* 179:1693. (FC) [PubMed](#)
 7. Daniel C, *et al.* 2012. *Lab Invest.* 92:812. (IHC)
 8. Li B, *et al.* 2006. *Kidney Int.* 69:323. (IF)

Description: CD90, also known as Thy-1, is a 28-30 kD GPI-linked membrane glycoprotein. It is a member of the immunoglobulin superfamily and has been shown to interact with CD45 in signal transduction during lymphocyte proliferation and differentiation. CD90 is expressed on hematopoietic stem cells, neurons, thymocytes, peripheral T cells, fibroblasts, stromal cells.

- Antigen References:**
1. Campbell DG, *et al.* 1981. *Biochem. J.* 195:15.
 2. Hosseinzadeh H, *et al.* 1993. *J. Immunol.* 150:1670.