SONY

Product Data Sheet

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

Catalog # / Size: 1612620 / 200 µg
1612615 / 50 µg

Clone: OX-7

Isotype: Mouse IgG1, κ

Immunogen: Rat thymocyte Thy-1 antigen

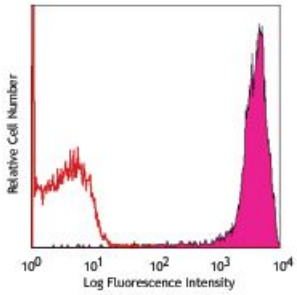
Reactivity: Mouse, Rat

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: V-CD28.05

Concentration: 0.2



LOU rat thymocytes stained with OX-7 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 µg per million cells in 100 µl 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: immunohistochemical[7] and immunofluorescent[8] 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-P)
8. Li B, *et al*. 2006. *Kidney Int*. 69:323. (ICC)
9. Uchimura H, *et al.* 2005. *J Am Soc Nephrol*. 16(4):997-1004. (IHC-F)
10. Inagi R, *et al.* 2008. *J Am Soc Nephrol*. 19(5):915-22. (IHC-P)

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.

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

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