SONY

Product Data Sheet

Brilliant Violet 650™ anti-rat CD90/mouse CD90.1 (Thy-1.1)

Catalog # / Size: 1612665 / 125 µl

Clone: OX-7

Isotype: Mouse IgG1, κ

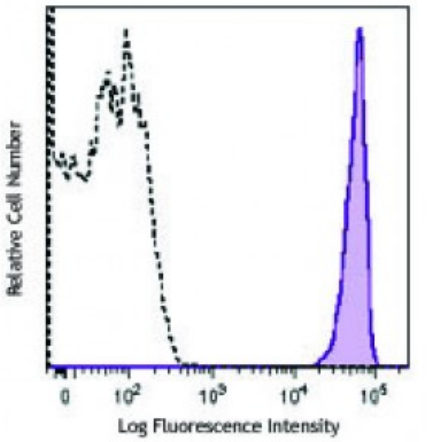
Immunogen: Rat thymocyte Thy-1 antigen

Reactivity: Other

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: Lot-specific



Lou rat thymocytes were stained with CD90.1 (clone OX-7) Brilliant Violet 650™ (filled histogram) or mouse IgG1, κ Brilliant Violet 650™ isotype control (open histogram).

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 ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.

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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

1. Jeng CJ, *et al.* 1998. *J. Cell Biol.* 140:685. (IP, WB)

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References:
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.