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Product Data Sheet

PerCP/Cy5.5 anti-rat CD90/mouse CD90.1 (Thy-1.1)

Catalog # / Size: 202515 / 25 µg
202516 / 100 µg

Clone: OX-7

Isotype: Mouse IgG1, κ

Immunogen: Rat thymocyte Thy-1 antigen

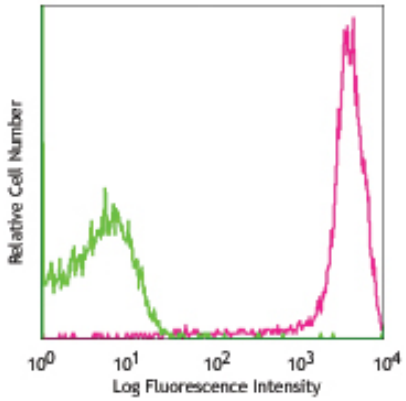
Reactivity: Rat, Mouse (AKR/J and PL mouse strains), **Cross-Reactivity:** Rabbit (Lapine), Guinea Pig

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

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

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



LOU rat thymocytes stained with OX-7 PerCP/Cy5.5

Applications:

Applications: FC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10^6 cells in 100 µl. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 690 nm.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemistry[1] of acetone-fixed frozen sections and zinc-fixed paraffin-embedded sections, immunoprecipitation[2], Western blotting[2], *in vitro* activation of leukocytes[3], induction of endothelial cell permeability[4], induction of glomerulonephritis[5] *in vivo*.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

Application References:
1. Hermans MHA, *et al.* 1991. *J. Histochem. Cytochem.* 39:1627. (IHC)
2. Jeng CJ, *et al.* 1998. *J. Cell Biol.* 140:685. (IP, WB)
3. Nakashima I, *et al.* 1991. *J. Immunol.* 147:1153.
4. Ishizu A, *et al.* 1995. *Int. Immunol.* 7:1939.
5. Eitner F. 1997. *Kidney. Int.* 51:69.
6. Kawachi H, *et al.* 1992. *Clin. Exp. Immunol.* 88:399.
7. Dyer KD, *et al.* 2007. *J. Immunol.* 179:1693. (FC) PubMed
8. Hiramatsu Y, *et al.* 2010. *J. Immunol.* 87:703. (FC) PubMed
9. Palumbo RN, *et al.* 2012. *J Control Release.* 157:86. PubMed.

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. 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. This antibody has been reported to induce leukocyte activation, vascular permeability, induce apoptosis in glomerular mesangial cells, and induce glomerulonephritis *in vivo*.

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

Related Products:

Product	Clone	Application
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
PerCP/Cy5.5 Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC

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