

CD90 (Thy-1) Monoclonal Antibody (G7), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2c, kappa
Class	Monoclonal
Type	Antibody
Clone	G7
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_469032

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Flow Cytometry (Flow)	0.125 µg/test	-
Functional Assay (FN)	Assay-Dependent	1 Publication

Product Specific Information

Description: The G7 monoclonal antibody reacts with mouse CD90 also known as Thy-1, a GPI-linked membrane molecule. CD90 is expressed by early hematopoietic cells in the bone marrow, thymocytes and mature T cells as well as neurons. CD90 is involved in regulation of adhesion and signal transduction by T cells. G7 is reported to induce TCR-mediated proliferation of T cell and apoptosis of thymocytes.

Applications Reported: The G7 antibody has been reported for use in flow cytometric analysis. G7 has also been reported in functional studies.

Applications Tested: The G7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

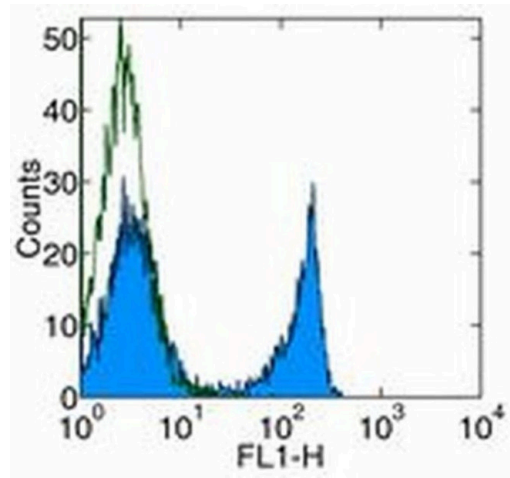
Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/μg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

Product Images For CD90 (Thy-1) Monoclonal Antibody (G7), Functional Grade, eBioscience™



CD90 (Thy-1) Antibody (16-0901-85) in Flow
Surface staining of mouse splenocytes with Anti-Mouse CD90 (Thy-1) Purified followed by Anti-Rat IgG FITC. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://thermofisher.com)

Immunohistochemistry (3)

Scientific reports

IL-4 as a Repurposed Biological Drug for Myocardial Infarction through Augmentation of Reparative Cardiac Macrophages: Proof-of-Concept Data in Mice.

"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 16-0901-85) in Immunofluorescence"

Authors: Shintani Y,Ito T,Fields L,Shiraishi M,Ichihara Y,Sato N,Podaru M,Kainuma S,Tanaka H,Suzuki K

Year
2017

eLife

Altered paracrine signaling from the injured knee joint impairs postnatal long bone growth.

"Published figure using CD90 (Thy-1) monoclonal antibody (Product # 16-0901-85) in Immunohistochemistry"

Authors: Roselló-Díez A,Stephen D,Joyner AL

Year
2017

[View more IHC references on thermofisher.com](#)

Functional Assay (1)

Journal of immunology (Baltimore, Md. : 1950)

T-independent antibody responses to T-dependent antigens: a novel follicular dendritic cell-dependent activity.

"16-0901 was used in Functional assays to examine follicular dendritic cell-dependent but T cell-independent responses to T cell-dependent antigens."

Authors: El Shikh ME,El Sayed RM,Szakal AK,Tew JG

Year
2009

Species
Mouse

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