

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

Product Details	
Size	100 µg
Species reactivity	Mouse
Published species	Mouse
Host / Isotype	Rat / IgG2c, kappa
Class	Monoclonal
Type	Antibody
Clone	G7
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4°C
Shipping conditions	Ambient (domestic); Wet ice (international)
RRID	AB_467376

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	1 Publication
Functional Assay (Functional)	Assay-Dependent	-
Immunohistochemistry (IHC)	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, and immunohistochemical staining. G7 has also been reported in functional studies. (Please use Functional Grade purified G7, [Product # 16-0901](#), in functional assays).

**Applications Tested:** The G7 antibody has been tested by flow cytometric analysis of mouse splenocytes and 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 10<sup>4</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

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

**Filtration:** 0.2 µm post-manufacturing filtered.

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