

## Basic Information

Product Name	Anti-CD90/THY1 Antibody
Gene Name	THY1
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS , 0.02% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CD90(20-39aa QKVTSLTACLVDQSLRLDCR), different from the related mouse sequence by two amino acids, and from the related rat sequence by four amino acids.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	22-30KD
Dilution Ratios	Western blot(WB):1:500-2000

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

CD90(Cluster of Differentiation 90) or Thy-1 is a 25-37 kDa heavily N-glycosylated, glycosylphosphatidylinositol(GPI) anchored conserved cell surface protein with a single V-like immunoglobulin domain, originally discovered as a thymocyte antigen. The CD90 gene is mapped to 11q23.3. Thy-1 can be used as a marker for a variety of stem cells and for the axonal processes of mature neurons. Structural study of Thy-1 lead to the foundation of the Immunoglobulin superfamily, of which it is the smallest member, and led to the first biochemical description and characterization of a vertebrate GPI anchor.

## Selected Validation Data

Lane 1: Rat Brain Tissue Lysate Lane 2: Rat Liver Tissue Lysate  
Lane 3: Rat Thymus Tissue Lysate

