

Rabbit CD90/Thy1 Polyclonal Antibody | anti-CD90/Thy1 antibody

Anti-CD90/Thy1 Picoband Antibody

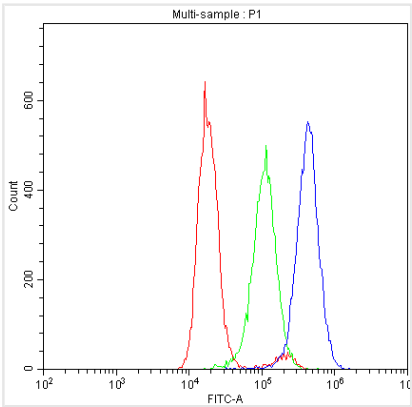
CATALOG # AAA124672	HOST Rabbit	REACTIVITY Mouse, Rat No cross reactivity with other proteins.	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

CD90/Thy1; Polyclonal Antibody; Anti-CD90/Thy1 Picoband Antibody; Thy-1 membrane glycoprotein; Thy-1 antigen; CD90; Thy1; Thy-1; anti-CD90/Thy1 antibody

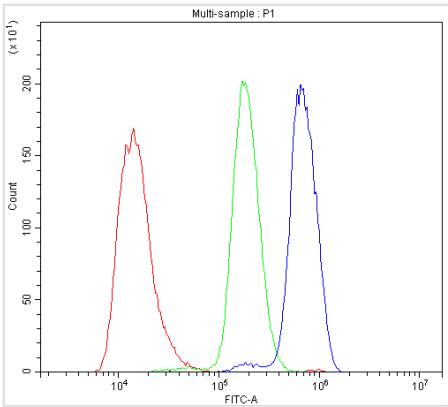
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	162
Applicable Applications for anti-CD90/Thy1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Immunogen	E Coli-derived mouse CD90/Thy1 recombinant protein (Position: Q20-C131). Mouse CD90/Thy1 shares 63.4% and 81.3% amino acid (aa) sequence identity with human and rat CD90/Thy1, respectively.
Subcellular Localization	Cell membrane; Lipid-anchor, GPI-anchor.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



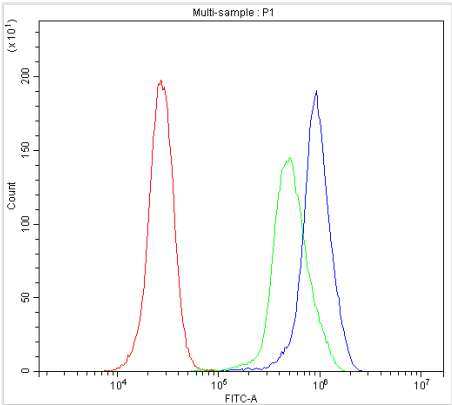
FCM/FACS (Flow Cytometry)

Figure 6. Flow Cytometry analysis of Neuro-2a cells using anti-CD90/Thy1 antibody (AAA124672).Overlay histogram showing Neuro-2a cells stained with AAA124672 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD90/Thy1 Antibody (AAA124672,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



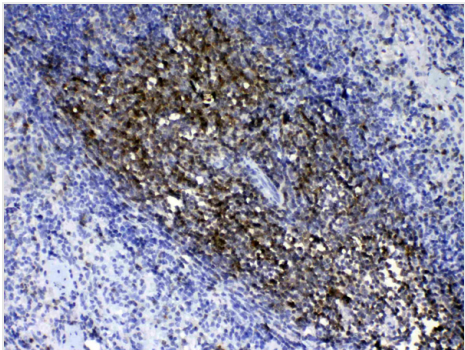
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of YAC-1 cells using anti-CD90/Thy1 antibody (AAA124672).Overlay histogram showing YAC-1 cells stained with AAA124672 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD90/Thy1 Antibody (AAA124672,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



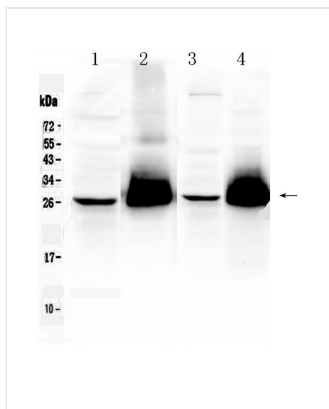
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of SP2-0 cells using anti-CD90/Thy1 antibody (AAA124672).Overlay histogram showing SP2-0 cells stained with AAA124672 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD90/Thy1 Antibody (AAA124672,1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of CD90/Thy1 using anti- CD90/Thy1 antibody (AAA124672).CD90/Thy1 was detected in paraffin-embedded section of mouse spleen tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti- CD90/Thy1 Antibody (AAA124672) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of CD90/Thy1 using anti- CD90/Thy1 antibody (AAA124672). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse brain tissue lysates, Lane 2: mouse thymus tissue lysates, Lane 3: mouse lung tissue lysates, Lane 4: rat thymus tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- CD90/Thy1 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CD90/Thy1 at approximately 26KD. The expected band size for CD90/Thy1 is at 18KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CD90/Thy1 antibody	Description: CD90 (Cluster of Differentiation 90) or Thy-1 is a 25 37 kDa heavily N-glycosylated, glycoposphatidylinositol (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. Protein Function: May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain.
Product Categories/Family for anti-CD90/Thy1 antibody	Immunology; Adaptive Immunity; T Cells; Neuroscience; Cell Type Marker; neuron marker; synapse marker; Stem Cells; Hematopoietic Progenitors; Lymphoid; B Lymphocytic Lineage; T Lymphocytic Lineage; Myeloid; monocytic lineage

NCBI AND UNIPROT INFORMATION

NCBI GI #	6678347
NCBI GeneID	21838
NCBI Accession #	NP_033408.1
NCBI GenBank Nucleotide #	NM_009382.3
UniProt Accession #	P01831
Molecular Weight	18080 MW
NCBI Official Full Name	thy-1 membrane glycoprotein preproprotein
NCBI Official Synonym Full Names	thymus cell antigen 1, theta
NCBI Official Symbol	Thy1
NCBI Official Synonym Symbols	T25; CD90; Thy-1; Thy1.1; Thy1.2; Thy-1.2
NCBI Protein Information	thy-1 membrane glycoprotein

UniProt Protein Name	Thy-1 membrane glycoprotein
UniProt Gene Name	Thy1
UniProt Synonym Gene Names	Thy-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cd90-thy1-antibody-western-blot-immunohistochemistry-elisa/124672>