Product datasheet

Anti-CD90/THY1 Antibody

Catalog Number: *A01818*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-CD90/THY1 Antibody
Gene Name	THY1
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF, FCM
Contents	500 ug/ml antibody with PBS， 0.02% NaN3 , 1 mg BSA and 50% glycerol.
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.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	22-30KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunofluorescence (IF): 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ 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, glycophosphatidylinositol (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.

Reference

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Anti-CD90/THY1 Antibody被引用在1文献中。

Selected Validation Data

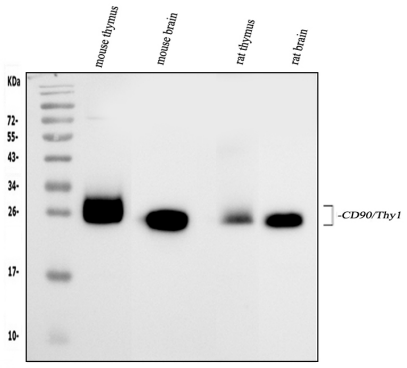

Figure 1. Western blot analysis of anti- CD90/THY1 antibody (A01818). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: mouse thymus tissue lysates,
Lane 2: mouse brain tissue lysates,
Lane 3: rat thymus tissue lysates,
Lane 4: rat brain tissue lysates.
Use rabbit anti- CD90/THY1 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for CD90/THY1 at approximately 24-30KD. The expected band size for CD90/THY1 is at 18KD.

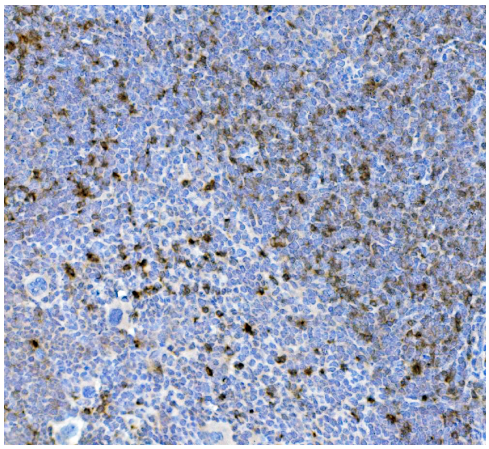

Figure 2. IHC analysis of CD90/Thy1 using anti- CD90/Thy1 antibody (A01818).anti- CD90/Thy1 Antibody (A01818) was detected in paraffin-embedded section of mouse spleen tissues. Biotinylated goat anti-rabbit IgG was used as secondary antibody . The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

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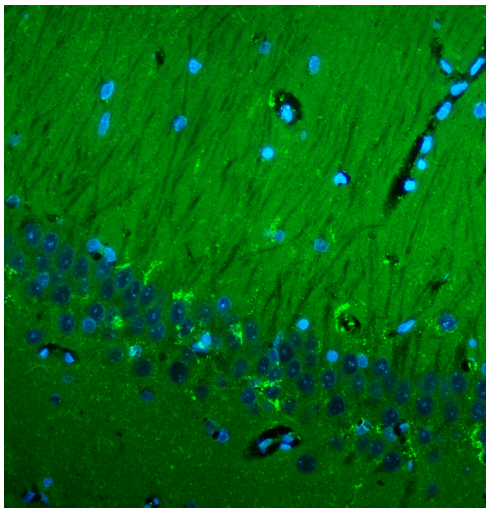

Figure 4. IF analysis using anti- CD90/THY1 antibody (A01818). detected in paraffin-embedded section of rat brain tissue. The tissue section were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and counterstained with DAPI (blue).

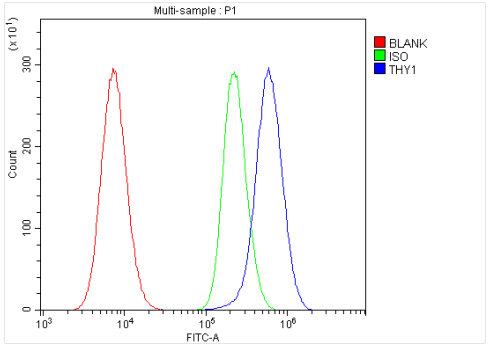

Figure 5. Flow cytometry analysis of HEPA1-6 cell (1x106) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).