

## Anti-Mouse CD90/Thy1 DyLight® 488 conjugated Antibody

Catalog Number: A01818-Dyl488

### About Thy1

CD2-associated protein is a protein that in humans is encoded by the CD2AP gene. This gene encodes a scaffolding molecule that regulates the actin cytoskeleton. The protein directly interacts with filamentous actin and a variety of cell membrane proteins through multiple actin binding sites, SH3 domains, and a proline-rich region containing binding sites for SH3 domains. The cytoplasmic protein localizes to membrane ruffles, lipid rafts, and the leading edges of cells. It is implicated in dynamic actin remodeling and membrane trafficking that occurs during receptor endocytosis and cytokinesis. Haploinsufficiency of this gene is implicated in susceptibility to glomerular disease.

### Overview

Product Name	Anti-Mouse CD90/Thy1 DyLight® 488 conjugated Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Mouse CD90/Thy1 DyLight® 488 conjugated Antibody catalog # A01818-Dyl488. Tested in Flow Cytometry applications. This antibody reacts with Mouse.
Conjugate	DyLight®488
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P01831

### Technical Details

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.
Predicted Reactive Species	Human
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry, 1-3ug/1x10<sup>6</sup> cells</p>

## Anti-Mouse CD90/Thy1 DyLight® 488 conjugated Antibody (A01818-Dyl488) Images

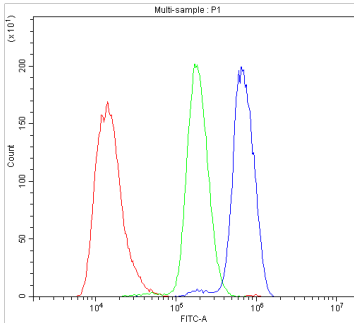


Figure 1. Flow Cytometry analysis of YAC-1 cells using anti-Mouse CD90/Thy1 antibody (A01818-Dyl488). Overlay histogram showing YAC-1 cells stained with A01818-Dyl488 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Mouse CD90/Thy1 Antibody (A01818-Dyl488, 1 $\mu$ g/1 $\times$ 10<sup>6</sup> cells) for 30 min at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 $\mu$ g/1 $\times$ 10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

## 3 Publications Citing This Product

1. PubMed ID: 26616638, Isolation and morphological characterization of ovine amniotic fluid mesenchymal stem cells
2. PubMed ID: 24820950, Li F, Xu Y, Xu X, Xu B, Zhao J, Zhang X. Mol Med Rep. 2014 Jul;10(1):322-8. Doi: 10.3892/Mmr.2014.2220. Epub 2014 May 8. Fms-Related Tyrosine Kinase??3 Ligand Promotes Proliferation Of Placenta Amnion And Chorion Mesenchymal Stem Cells In??vitro.
3. PubMed ID: 26807166, Effects of human umbilical cord mesenchymal stem cell transplantation combined with minimally invasive hematoma aspiration on intracerebral hemorrhage in rats.

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