bs-20640R **[Primary Antibody]**

CD90/Thy-1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7070 **SWISS:** P04216

Target: CD90/Thy-1

Immunogen: KLH conjugated synthetic peptide derived from human CD90: 20-100/161. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Thy-1 or CD90 (Cluster of Differentiation 90) 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. Thy-1can 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 some of the initial biochemical description and characterization of a vertebrate GPI anchor and also the first demonstration of tissue specific differential glycosylation.

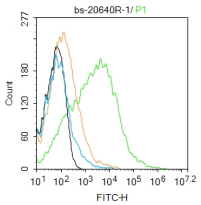
Applications: **Flow-Cyt** (1ug/Test)

Reactivity: Mouse (predicted: Human, Rat)

Predicted MW.: 12 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Blank control:Mouse brain. Primary Antibody (green line): Rabbit Anti-CD90 antibody (bs-20640R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1µg /test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=8.724]** Yong Tang. et al. Phosphorylation inhibition of protein-tyrosine phosphatase 1B tyrosine-152 induces bone regeneration coupled with angiogenesis for bone tissue engineering. Bioact Mater. 2021 Jul;6:2039 IF,IHC ;Mouse. 33511306
- **[IF=7.242]** Yong Tang. et al. Laminin alpha 4 promotes bone regeneration by facilitating cell adhesion and

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vascularization. Acta Biomater. 2021 Mar;: IF ;Mouse. 33711525

- **[IF=7.328]** Dongdong Yao. et al. Matrix stiffness regulates bone repair by modulating 12-lipoxygenase-mediated early inflammation. Mat Sci Eng C-Mater. 2021 Sep;128:112359 IF ;Mouse. 34474906
- **[IF=6.353]** Chen Chong. et al. 3D printed collagen/silk fibroin scaffolds carrying the secretome of human umbilical mesenchymal stem cells ameliorated neurological dysfunction after spinal cord injury in rats. Regen Biomater. 2022 Feb;: IF ;Human. 10.1093/rb/rbac014
- **[IF=5.999]** Jinsheng Li. et al. Micro/nano-topography Promotes Osteogenic Differentiation of Bone Marrow Stem Cells by Regulating Periostin Expression. COLLOID SURFACE B. 2022 Jul;:112700 FCM ;Rat. 35907353

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