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Rabbit Anti-CD90 antibody

SL0778R

Product Name:	CD90
Chinese Name:	CD90抗体
Alias:	CD90 / Thy1; CD7; CD90 antigen; CDw90; FLJ33325; MGC128895; T25; Theta antigen; Thy-1; Thy 1; Thy 1 cell surface antigen; Thy 1 membrane glycoprotein; Thy 1 membrane glycoprotein precursor; Thy 1.2; Thy-1 T-cell antigen; Thy1 antigen; Thy1 T cell antigen; Thy1.1; Thy1.2; Thymus cell antigen 1, theta; THY1_RAT; THY1_HUMAN.
文献引用 PubMed :	**Specific References(12)**|SL0778R has been referenced in 12 publications. **[IF=2.94]**Wang, Kai, et al. "Over-expression of Mash1 improves the GABAergic differentiation of bone marrow mesenchymal stem cells< i> in vitro." Brain Research Bulletin (2013).**FCM;Rat**. PubMed:24144723 **[IF=2.88]**Long, Qianfa, et al. "Genetically engineered bone marrow mesenchymal stem cells improve functional outcome in a rat model of epilepsy." Brain Research (2013).**Rat**. PubMed:23928226 **[IF=2.26]**Yu, Xian-huan, et al. "Clinicopathological characteristics of 20 cases of hepatocellular carcinoma with bile duct tumor thrombi." Digestive diseases and sciences 56.1 (2011): 252-259.**IHC-P;Human**. PubMed:20437099 **[IF=6.72]**Chen, Guobao, et al. "3D Scaffolds with Different Stiffness but Same Microstructure for Bone Tissue Engineering." ACS Applied Materials & Interfaces (2015).**IHC-F;Rat**.

PubMed:26151287

[IF=1.52]Tepekoy, Filiz, et al. "CD90 and CD105 expression in the mouse ovary and testis at different stages of postnatal development." Reproductive Biology(2015).**IHC-P;Mouse**.

PubMed:26679159

[IF=3.36]Long, Q., et al. "Bone marrow mesenchymal stem cell transplantation improves cognitive impairment via up-regulation of hippocampal GABAergic system in a rat model of chronic cerebral hypoperfusion." Neuroscience (2015).**Rat**.

PubMed:26545982

[IF=1.80]Vansandt, Lindsey M., et al. "Conservation of spermatogonial stem cell marker expression in undifferentiated felid spermatogonia." Theriogenology(2016).**IHC-P;Other Species**.

PubMed:27129396

[IF=1.43]Zeng, Biao, et al. "Increased expression of importin13 in endometriosis and endometrial carcinoma." Medical Science Monitor 18.6 (2012): CR361-CR367.**IHC-P;Human**.

PubMed:22648251

[IF=1.06]Scott, Erin M., et al. "Early histopathologic changes in the retina and optic nerve in canine primary angle-closure glaucoma." Veterinary ophthalmology16.s1 (2013): 79-86.**IHC-P;Dog**.

PubMed:23826772

[IF=0.00]Gstraunthaler, Gerhard, et al. "Human platelet lysates successfully replace fetal bovine serum in adipose-derived adult stem cell culture." Journal of Advanced Biotechnology and Bioengineering 2.1 (2014): 1-11.**IF(ICC);Human**.

PubMed:0

[IF=0.52]Utomo, Pamudji, et al. "Decreasing SDF1-CXCR4 Expression after Adipose-Derived Mesenchymal Stem Cells (ASCS) Treatment Combined with Freeze-Dried Amniotic Membrane Wrapping in Rat Sciatic Nerve Injury." International Journal of ChemTech Research.**IF(ICC);Rat**.

PubMed:0

[IF=1.92]Ma, Caiyun, et al. "Cryopreservation and multipotential characteristics evaluation of a novel type of mesenchymal stem cells derived from Small Tailed Han

	Sheep fetal lung tissue." Cryobiology (2017).**FCM;Sheep**. PubMed:28284665
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Sheep,
Applications:	WB=1:500-2000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestIF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	12kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from rat Thy-1:31-120/161<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. **Function:** May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain. **Subcellular Location:** Cell membrane; Lipid-anchor, GPI-anchor. **Tissue Specificity:** Abundant in lymphoid tissues. **Post-translational modifications:** Glycosylation is tissue specific. Sialylation of N-glycans at Asn-93 in brain and at Asn-42, Asn-93 and Asn-117 in thymus.

Similarity:
Contains 1 Ig-like V-type (immunoglobulin-like) domain.

SWISS:
P01830

Gene ID:
24832

Database links:

Entrez Gene: 7070Human

Entrez Gene: 21838Mouse

Entrez Gene: 24832Rat

Omim: 188230Human

SwissProt: P04216Human

SwissProt: P01831Mouse

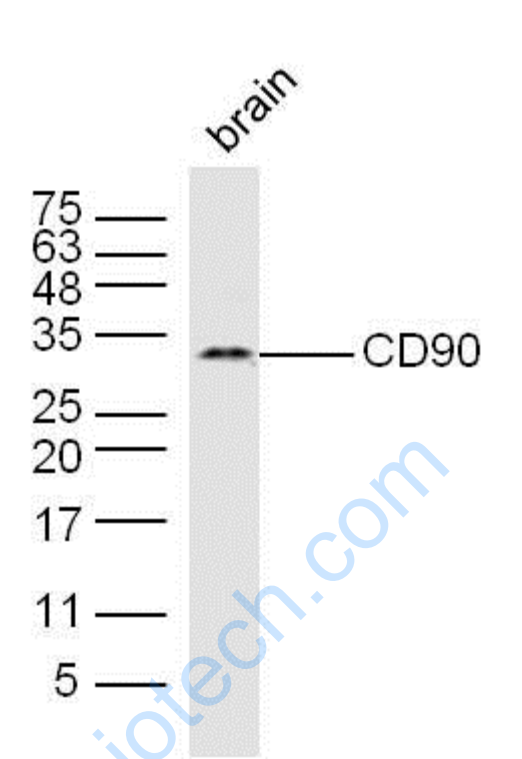
SwissProt: P01830Rat

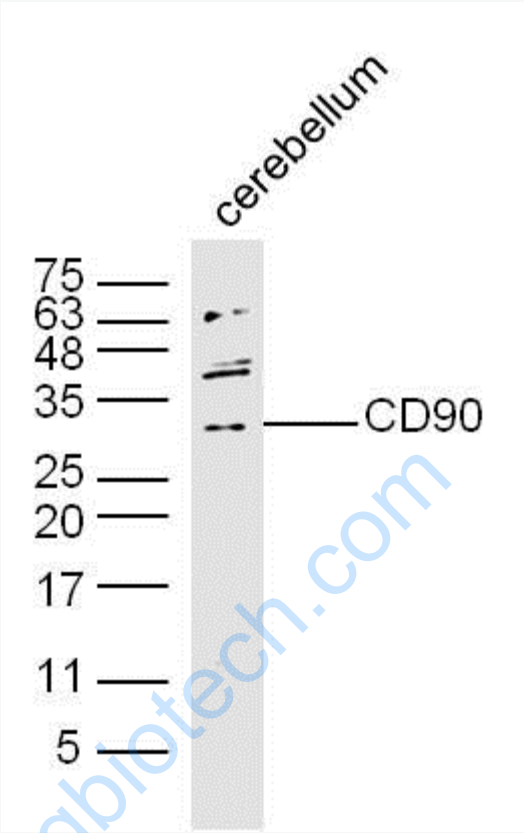
Unigene: 644697Human

Unigene: 3951Mouse

Unigene: 108198Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Sample: Brain (Mouse) Lysate at 40 ug Primary: Anti-CD90 (SL0778R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 12 kD Observed band size: 32 kD



Sample:

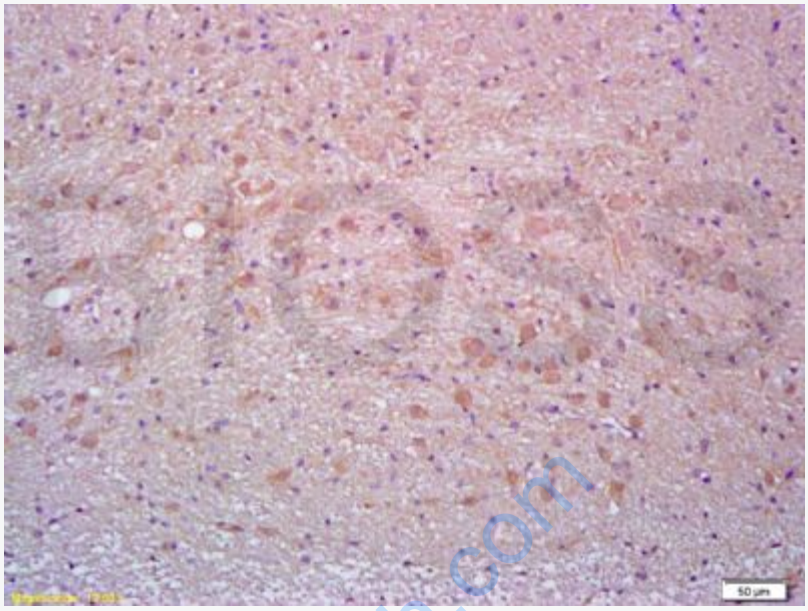
Brain (Mouse) Lysate at 40 ug

Primary: Anti-CD90 (SL0778R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 12 kD

Observed band size: 32 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Thy-1/CD90/ Thy1.1 Polyclonal Antibody, Unconjugated(SL0778R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

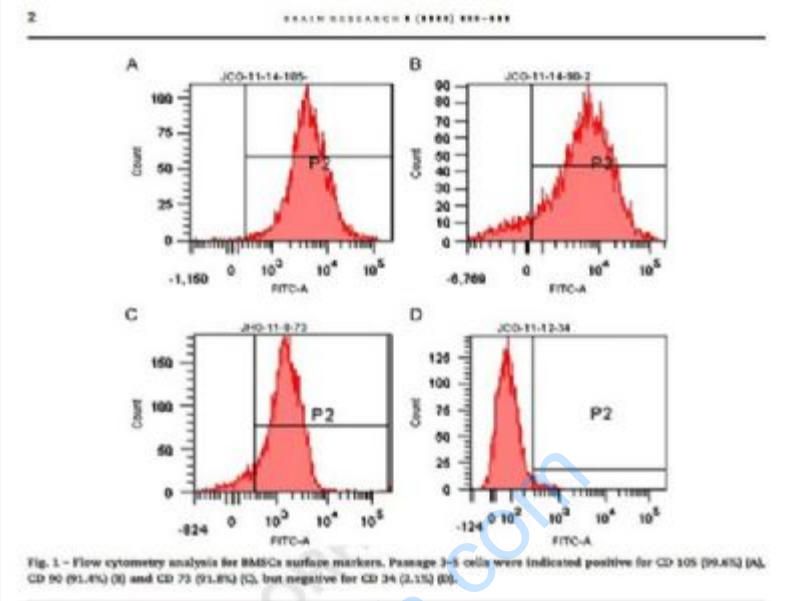
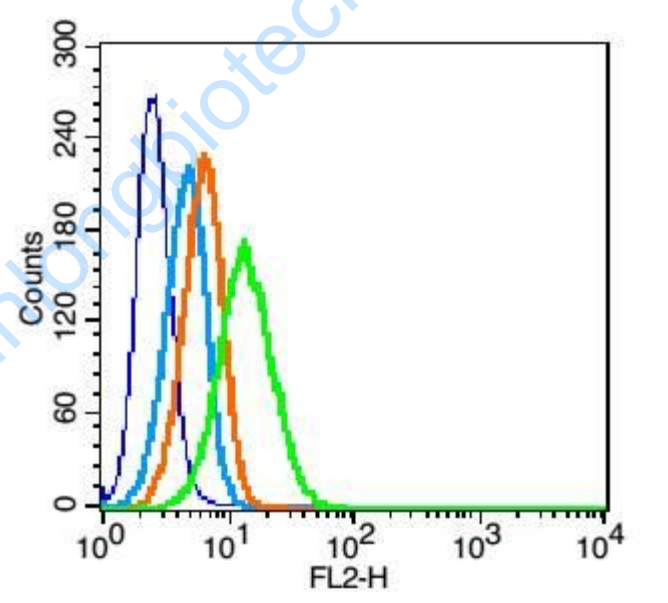


Fig. 1 – Flow cytometry analysis for BMSCs surface markers. Passage 3–5 cells were indicated positive for CD 105 (99.6%) (A), CD 90 (91.4%) (B) and CD 73 (91.8%) (C), but negative for CD 34 (2.1%) (D).



Blank control: U937(blue).

Primary Antibody: Rabbit Anti-CD90 antibody(SL0778R), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA;

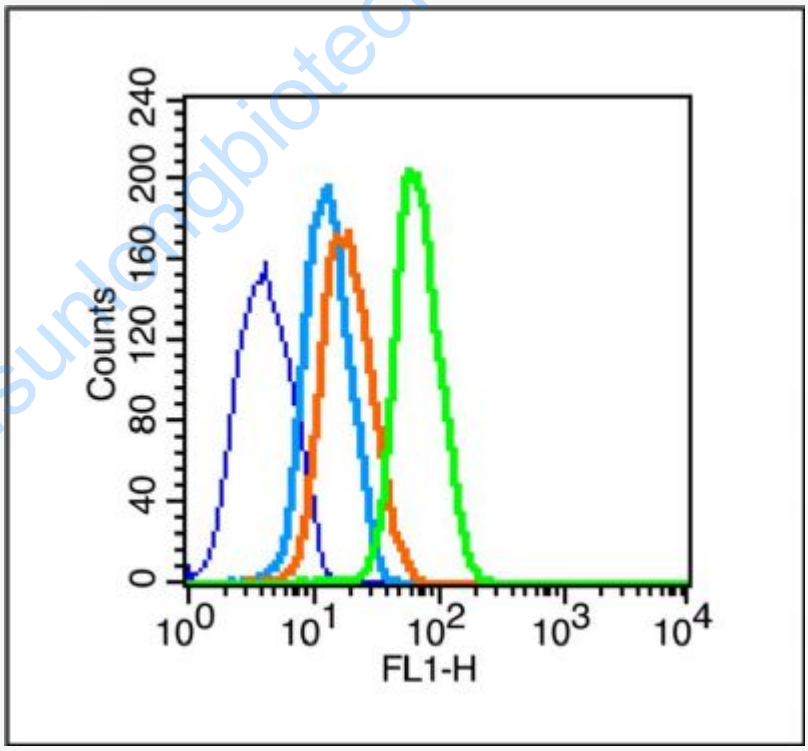
Isotype Control Antibody: Rabbit IgG (orange) ,used under the same conditions.

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X

PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min).Primary antibody (SL0778R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.



Blank control (blue line): U251 (blue).

Primary Antibody (green line): Rabbit Anti- CD90 antibody (SL0778R)

Dilution: 1μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

	Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 1μg /test. Protocol The cells were fixed with 70% ice-cold methanol overnight at 4℃. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.