



Rabbit Anti-CD44 antibody

SL2507R

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| Product Name: | CD44 |
| Chinese Name: | CD44抗体 |
| Alias: | Homing Cell Adhesion Molecule; Epican; Heparan sulfate proteoglycan; Hyaluronate receptor; Antigen gp90 homing receptor; CD44; CD44 antigen; CD44 antigen homing function and Indian blood group system; CD44 molecule; CD44 molecule Indian blood group; CD44R; CDw44; CDW44 antigen; Chondroitin sulfate proteoglycan 8; CSPG8; ECMR III; ECMRIII; Extracellular matrix receptor III; GP90 lymphocyte homing/adhesion receptor; HCELL; Hematopoietic cell E and L selectin ligand; Hermes antigen; Homing function and Indian blood group system; HUTCH I; IN ; INLU related p80 glycoprotein; LHR; MC56; MDU2; MDU3; MGC10468; MIC4; MUTCH I; MUTCHI; PGP 1; Phagocytic glycoprotein I; CD44_RAT. |
| 文献引用 : | Specific References(3) SL2507R has been referenced in 3 publications. [IF=2.70] Bai, Feng, et al. "Angiotensin II AT1 receptor alters ACE2 activity, eNOS expression and CD44-hyaluronan interaction in rats with hypertension and myocardial fibrosis." Life Sciences (2016). WB, IHC-P;Rat. PubMed:27085217 |
| | [IF=1.28] Chen, Jia, et al. "Biological characterization of metanephric mesenchymal stem cells from the Beijing duck." Experimental and Therapeutic Medicine 11.2 (2016): 439-447. FCM;Other Species. PubMed:26893628 |
| | [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 |
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| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Chicken,Pig,Cow,Rabbit, |
| Applications: | ELISA=1:500-1000Flow-Cyt=1µg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 53kDa |
| Cellular localization: | The cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from rat CD44v6:325-429/429<Cytoplasmic> |
| 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: | <p>CD44 is the receptor for hyaluronic acid (HA). It mediates cell to cell and cell matrix interactions through its affinity for HA. Adhesion with HA plays an important role in cell migration, tumor growth and progression. Also involved in lymphocyte activation, recirculation and homing, and in hematopoiesis. High protein heterogeneity due to several alternative splicing and post translational modification events. CD44R represents a heterogeneous group of CD44 variant isoforms expressed constitutively in epithelial cells and monocyte lineage cells and can be upregulated in activated leukocytes. CD44R, and in particular CD44v6 containing isoforms, may be involved in leukocyte attachment to and rolling on endothelial cells, homing to peripheral lymphoid organs and to sites of inflammation. CD44v6 containing isoforms may be involved in tumor metastasis.</p> <p>The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis. [provided by RefSeq].</p> <p>Function:</p> |

Main cell surface receptor for hyaluronate. Adhesion to ucosal high endothelial venule and to types I and VI collagen. robably involved in matrix adhesion, lymphocyte activation and ymph node homing.

Subunit:

Interacts with PKN2.

Subcellular Location:

Membrane; Single-pass type I membrane protein. Note=Colocalizes with actin in membrane protrusions at wounding edges.

Post-translational modifications:

N-glycosylated.

O-glycosylated; contains chondroitin sulfate glycans which an be more or less sulfated.

Phosphorylated; activation of PKC results in the ephosphorylation of Ser-467

(constitutive phosphorylation site), nd the phosphorylation of Ser-433.

Similarity:

Contains 1 Link domain.

SWISS:

P16070

Gene ID:

960

Database links:

[Entrez Gene: 960](#)Human

[Entrez Gene: 12505](#)Mouse

[Entrez Gene: 25406](#)Rat

[Oimim: 107269](#)Human

[SwissProt: P16070](#)Human

[SwissProt: P15379](#)Mouse

[SwissProt: P26051](#)Rat

[Unigene: 502328](#)Human

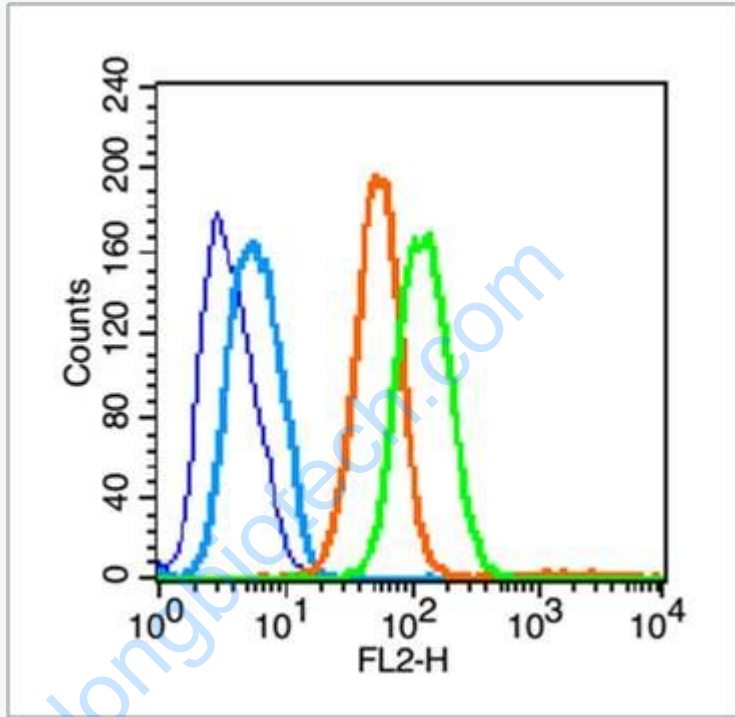
[Unigene: 423621](#)Mouse

[Unigene: 1120](#)Rat

Important Note:

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

CD44V6参与细胞与细胞、细胞与基质的黏附,与Cytoskeleton蛋白结合,并与细胞的迁移运动有关,与Tumour细胞的浸润与转移有关。



Picture:

Blank control (blue): U251 (fixed with Ice-cold 70% ethanol overnight at 4 °C).

Primary Antibody: Rabbit Anti-CD44 antibody (SL2507R); 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-FITC(white blue), Dilution: 1:200 in 1 X
PBS containing 0.5% BSA.