SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CD9 antibody

Catalog Number: SL23035R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CD9
Immunogen:	KLH conjugated synthetic peptide derived from human CD9: 101-200/228 <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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=1ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Cow,Rabbit,Sheep)
Predicted MW.:	25kDa
Subcellular Location:	The cell membrane
Background:	CD9 antigen is a glycoprotein expressed on the surface of developing B lymphocytes, platelets, monocytes, eosinophils, basophil, stimulated T lymphocytes and by neurons and glial cells in the peripheral nervous system. It belongs to a family of membrane proteins termed tetraspanins which transverse the membrane four times. In pre B cells and platelets, CD9 antigen regulates cell activation and aggregation possibly through an association with the integrin CD41 / CD61 (GPIIb / GPIIIa). It also regulates cell motility in a variety of cell lines, and appears to be an important regulator of Schwann cell behaviour in peripheral nerve. **Function:** Involved in platelet activation and aggregation. Regulates paranodal junction formation. Involved in cell adhesion, cell motility and tumor

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	metastasis. Required for sperm-egg fusion. **Subunit:** Forms both disulfide-linked homodimers and higher homooligomers as well as heterooligomers with other members of the tetraspanin family. Associates with CR2/CD21 and with PTGFRN/CD9P1. Interacts directly with IGSF8. **Subcellular Location:** Membrane; Multi-pass membrane protein. **Tissue Specificity:** Expressed by a variety of hematopoietic and epithelial cells. **Post-translational modifications:** Protein exists in three forms with molecular masses between 22 and 27 kDa, and is known to carry covalently linked fatty acids. **Similarity:** Belongs to the tetraspanin (TM4SF) family. **Database links:** **Entrez Gene:** 928 Human **Entrez Gene:** 12527 Mouse **Entrez Gene:** 24936 Rat Omim: 143030 Human **SwissProt:** P21926 Human **SwissProt:** P40240 Mouse **SwissProt:** P40241 Rat **Unigene:** 114286 Human **Unigene:** 210676 Mouse **Unigene:** 404614 Mouse **Unigene:** 2091 Rat CD9 is a cell surface glycoprotein ubiquitously present on the cell membrane and belonging to the tetraspanin superfamily; it participates in the fusion process of the plasma membrane and plays an important role in cell membrane biology. In recent years, studies have found that CD9 is associated with various tumor metastases, hence it is called a tumor metastasis suppressor gene, also known as an anti-tumor metastasis gene. It is a novel tumor metastasis suppressor gene membrane motility-related protein-1 (CD9/MRP-1), and its molecular function remains to be further studied. CD9 is mainly expressed in early B cells, activated T lymphocytes, eosinophils, basophils and platelets.

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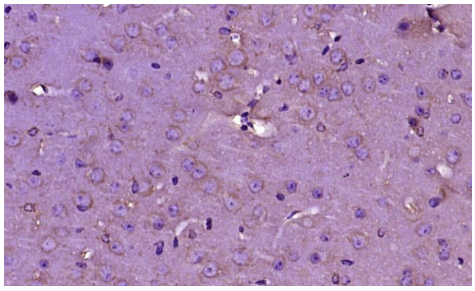
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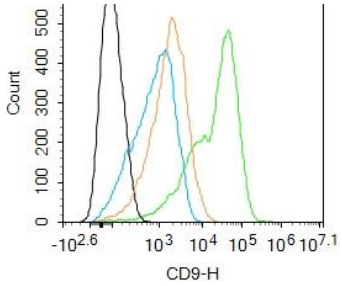
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[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CD9) Polyclonal Antibody, Unconjugated (SL23035R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:MCF-7. Primary Antibody (green line): Rabbit Anti-CD9 antibody (SL23035R) Dilution: 1ug/Test; Secondary Antibody (green line) : Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test.
Negative control（white blue line）： PBS
Isotype control（orange line）： Normal Rabbit IgG
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.

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