SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-CD9 antibody

**Catalog Number: SL22293R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

| | |
|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | CD9 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human CD9 : 61-160/228 <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°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB=1:500-2000<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Mouse, (predicted: Human, Rat, Rabbit) |
| **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.<br>**Function:** Involved in platelet activation and aggregation. Regulates paranodal junction formation. Involved in cell adhesion, cell motility and tumor metastasis. Required for sperm-egg fusion.<br>**Subunit:** Forms both disulfide-linked homodimers and higher homooligomers as well as heterooligomers with other members of the tetraspanin family. |

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

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|---|---|
| | Associates with CR2/CD21 and with PTGFRN/CD9P1. Interacts directly with IGSF8.<br>**Subcellular Location:** Membrane; Multi-pass membrane protein.<br>**Tissue Specificity:** Expressed by a variety of hematopoietic and epithelial cells.<br>**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.<br>**Similarity:** Belongs to the tetraspanin (TM4SF) family.<br>**Database links:**<br>**Entrez Gene:** 928 Human<br>**Entrez Gene:** 12527 Mouse<br>**Entrez Gene:** 24936 Rat<br>Omim: 143030 Human<br>**SwissProt:** P21926 Human<br>**SwissProt:** P40240 Mouse<br>**SwissProt:** P40241 Rat<br>**Unigene:** 114286 Human<br>**Unigene:** 210676 Mouse<br>**Unigene:** 404614 Mouse<br>**Unigene:** 2091 Rat<br>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.<br>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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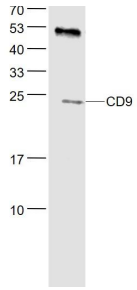
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## [ VALIDATION IMAGES ]




Sample:
Lung (Mouse) Lysate at 40 ug
Primary: Anti- CD9 (SL22293R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 25 kD
Observed band size: 24 kD

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