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# Product datasheet for SM3040P

## CD9 Mouse Monoclonal Antibody [Clone ID: IVA50]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | IVA50 |
| **Applications:** | FC, FN, IP, WB |
| **Recommended Dilution:** | Flow cytometry.<br>Immunoprecipitation.<br>Western blotting.<br>Functional application (the antibody activates bovine thrombocytes). |
| **Reactivity:** | Bovine |
| **Host:** | Mouse |
| **Isotype:** | IgG2 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Bovine thrombocytes |
| **Specificity:** | Clone IVA50 reacts with CD9 antigen, a 24 kDa single transmembrane polypeptide expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes. |
| **Formulation:** | PBS, pH 7.4, with 15 mM sodium azide as preservative<br>State: Purified<br>State: Liquid Ig fraction |
| **Concentration:** | lot specific |
| **Purification:** | Protein A affinity chromatography ( > 95% by SDS-PAGE) |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |
| **Database Link:** | Entrez Gene 280746 Bovine<br>P30932 |

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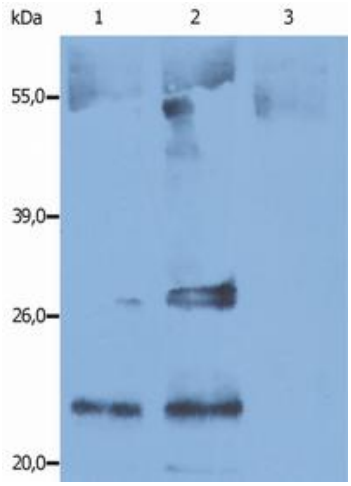
**Background:** CD9 antigen is a glycoprotein expressed on the surface of developing B lymphocytes, platelets, monocytes, eosinophils, basophil, stimulated T lymphocytes and by neurons and glial cells in the peripheral nervous system. It belongs to a family of membrane proteins termed tetraspanins which 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.

**Synonyms:** MIC3, TSPAN29, GIG2, p24, Tetraspanin-29, 5H9 antigen

## Product images:




Immunoprecipitation of human CD9 from the biotin-labeled human platelets lysates. Lane 1: immunoprecipitation with anti-CD9 (IVA50). Lane 2: immunoprecipitation with anti-human CD9 control antibody. Lane 3: immunoprecipitation with negative control.