



1B-208-C100

## Monoclonal Antibody to CD9 Biotin conjugated (0.1 mg)

|                             |  |
|-----------------------------|--|
| <b>Clone:</b>               | MEM-61   |
| <b>Isotype:</b>             | Mouse IgG1   |
| <b>Specificity:</b>         | The antibody MEM-61 recognizes an epitope on second extracellular domain (EC2) of CD9 antigen, a 24 kDa transmembrane protein expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes. HLDA VI; WS Code P P-15  |
| <b>Regulatory Status:</b>   | RUO  |
| <b>Immunogen:</b>           | Pre-B cell line NALM-6.  |
| <b>Species Reactivity:</b>  | Human  |
| <b>Preparation:</b>         | The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.   |
| <b>Concentration:</b>       | 1 mg/ml  |
| <b>Storage Buffer:</b>      | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4  |
| <b>Storage / Stability:</b> | Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.   |
| <b>Usage:</b>               | Biotinylated antibody is intended for indirect immunofluorescence analysis by flow cytometry and for Western blotting.<br>Suggested working dilution for flow cytometry is 1:400. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.   |
| <b>Expiration:</b>          | See vial label   |
| <b>Lot Number:</b>          | See vial label   |
| <b>Background:</b>          | CD9 belongs to proteins of tetraspanin family that orchestrate cholesterol-associated tetraspanin-enriched signaling microdomains within the plasma membrane, forming complexes with each other as well as with integrins, membrane-anchored growth factors and other proteins. CD9 is involved in cell motility, osteoclastogenesis, neurite outgrowth, myotube formation, and sperm-egg fusion, plays roles in cell attachment and proliferation and is necessary for association of heterologous MHC II molecules on the dendritic cell plasma membrane which is important for effective T cell stimulation. CD9 is also considered as metastasis suppressor in solid tumors. |

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****References:**

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- \*Lafleur MA, Xu D, Hemler ME: Tetraspanin proteins regulate membrane type-1 matrix metalloproteinase-dependent pericellular proteolysis. *Mol Biol Cell.* 2009 Apr;20(7):2030-40.
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- \*Stöckl J, Majdic O, Fischer G, Maurer D, Knapp W: Monomorphic molecules function as additional recognition structures on haptenated target cells for HLA-A1-restricted, hapten-specific CTL. *J Immunol.* 2001 Sep 1;167(5):2724-33.

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic  
Tel: +420 261 090 666 | Fax: +420 261 090 660 | [orders@exbio.cz](mailto:orders@exbio.cz) | [www.exbio.cz](http://www.exbio.cz)