



Technical Data Sheet

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Product               | <b>Anti-Hu CD105 FITC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| Cat. Number/Size      | <b>1F-453-T025</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>25 tests</b>  |
|                       | <b>1F-453-T100</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>100 tests</b> |
|                       | <b>For Research Use Only.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |
|                       | <b>Not for use in diagnostic or therapeutic procedures.</b>                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |
| Antigen               | CD105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |
| Clone                 | MEM-229                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |
| Format                | FITC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |
| Reactivity            | Pig, Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |
| Negative species      | Dog, Horse                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  |
| Application           | FC (QC tested)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| Application details   | Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.                                                                                                                                                                                                                                                            |                  |
| Excitation laser      | blue (488 nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |
| Isotype               | Mouse IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |
| Specificity           | The antibody MEM-229 recognizes an extracellular epitope of CD105 (Endoglin), a 90 kDa type I integral membrane homodimer glycoprotein expressed on vascular endothelial cells (small and large vessels), activated monocytes and tissue macrophages, stromal cells of certain tissues including bone marrow, pre-B lymphocytes in fetal marrow and erythroid precursors in fetal and adult bone marrow; it is also present on syncytiotrophoblast on placenta throughout pregnancy. |                  |
| Other names           | Endoglin, END, ENG, HHT1, ORW1                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| Immunogen             | Recombinant <i>Vaccinia</i> virus containing the human CD105 (L-isoform) cDNA.                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| Entrez Gene ID        | 2022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |
| Gene name             | ENG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                  |
| NCBI Full Gene Name   | endoglin                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
| UniProt ID            | P17813                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |
| Preparation           | Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.                                                                                                                                                                                                                                                                                        |                  |
| Formulation           | Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide                                                                                                                                                                                                                                                                                                                                                                                                              |                  |
| Storage and handling  | Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
| Images and References | <a href="http://www.exbio.cz">www.exbio.cz</a>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |

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