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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|                       | Technical Data Sheet                                                                                                                                                                                                                                                                                                                                                                                   |                  |
| Product               | <b>Anti-Hu CD34 PerCP-Cy™5.5</b>                                                                                                                                                                                                                                                                                                                                                                       |                  |
| Cat. Number/Size      | <b>T9-297-T100</b>                                                                                                                                                                                                                                                                                                                                                                                     | <b>100 tests</b> |
|                       | <b>For Research Use Only.</b>                                                                                                                                                                                                                                                                                                                                                                          |                  |
|                       | <b>Not for use in diagnostic or therapeutic procedures.</b>                                                                                                                                                                                                                                                                                                                                            |                  |
| Antigen               | CD34                                                                                                                                                                                                                                                                                                                                                                                                   |                  |
| Clone                 | 4H11[APG]                                                                                                                                                                                                                                                                                                                                                                                              |                  |
| Format                | PerCP-Cy™5.5                                                                                                                                                                                                                                                                                                                                                                                           |                  |
| Reactivity            | Human                                                                                                                                                                                                                                                                                                                                                                                                  |                  |
| Application           | FC (QC tested)                                                                                                                                                                                                                                                                                                                                                                                         |                  |
| Application details   | Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.                                                                                                                                                                             |                  |
| Excitation laser      | blue (488 nm)                                                                                                                                                                                                                                                                                                                                                                                          |                  |
| Isotype               | Mouse IgG1                                                                                                                                                                                                                                                                                                                                                                                             |                  |
| Specificity           | The mouse monoclonal antibody 4H11[APG] reacts with extracellular class III epitope on CD34, a 110-115 kDa monomeric transmembrane phosphoglycoprotein expressed on hematopoietic progenitors cells and on the most pluripotential stem cells; it is gradually lost on progenitor cells. The antibody 4H11[APG] completely blocks binding of class III antibodies BIRMA K3 and 8G12 on KG1a cell line. |                  |
| Workshop              | HLDA VI: WS Code M MA58                                                                                                                                                                                                                                                                                                                                                                                |                  |
| Immunogen             | Permanent human cell line derived from peripheral leucocytes of a patient suffering from chronic myeloid leukaemia.                                                                                                                                                                                                                                                                                    |                  |
| Entrez Gene ID        | 947                                                                                                                                                                                                                                                                                                                                                                                                    |                  |
| Gene name             | CD34                                                                                                                                                                                                                                                                                                                                                                                                   |                  |
| NCBI Full Gene Name   | CD34 molecule                                                                                                                                                                                                                                                                                                                                                                                          |                  |
| UniProt ID            | P28906                                                                                                                                                                                                                                                                                                                                                                                                 |                  |
| Preparation           | Purified antibody is conjugated with activated tandem dye of activated Peridinin-Chlorophyll Protein-Cyanine 5.5 (PerCP-Cy™5.5) 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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