

Product datasheet for **AM26022RP-N**

FLT3 Mouse Monoclonal Antibody [Clone ID: BV10A4]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | BV10A4 |
| Applications: | FC |
| Recommended Dilution: | Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | BV-173 leukemic cell line |
| Specificity: | This antibody reacts with CD135 (FLT3, FLK2, STK-1), a 130-160 kDa type III receptor tyrosine kinase that is involved in early steps of hematopoiesis. |
| Formulation: | Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent Label: PE State: Liquid purified Ig fraction Label: Conjugated with R-Phycoerythrin under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use |
| Conjugation: | PE |
| Storage: | Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | fms related tyrosine kinase 3 |
| Database Link: | Entrez Gene 2322 Human P36888 |



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| Background: | CD135 / FLT3, also known as FLK2 or STK-1 is a receptor tyrosine kinase that plays important roles in hematopoiesis. After binding of Flt3 ligand (FL), CD135 homodimerizes and stimulates proliferation, differentiation and protects the cell from apoptosis. The loss of CD90 and gain of CD135 expression marks the loss of self-renewal in hematopoietic stem cell population. Detectable CD135 expression appears first at low levels on the surface of primitive multilineage progenitor cells and disappears during defined stages of B-cell development, but is upregulated and maintained during maturation of monocytes. CD135 is also expressed on thymocytes, dendritic cell progenitors and on mature dendritic cells, as well as on various malignant hematopoietic cells. |
| Synonyms: | FL cytokine receptor, STK1 |
| Protein Families: | Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane |
| Protein Pathways: | Acute myeloid leukemia, Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Pathways in cancer |