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# Mouse Anti-CD135 Monoclonal Antibody

**CLX423AP**
**Lot:**

| | |
|---|---|
| **Size:** | 0.1 mg |
| **Clone:** | BV10A4 |
| **Isotype:** | Mouse IgG1 |
| **Specificity:** | The mouse monoclonal antibody BV10A4 (BV10) reacts with CD135 (FLT3, FLK2, STK-1), a 130-160 kDa type III receptor tyrosine kinase that is involved in early steps of hematopoiesis. |
| **Immunogen:** | BV-173 leukemic cell line |
| **Species Reactivity:** | Human |
| **Negative Species:** | Mouse |
| **Application:** | **Flow Cytometry**<br>Application note:Tested on cell lines K562 and REH. In this case the recommended concentration is 10 µg/ml per 1 million cells/ml.<br>**Immunoprecipitation** |
| **Purification:** | Purified from ascites by protein-A affinity chromatography. |
| **Concentration:** | 1 mg/ml |
| **Storage Buffer:** | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 |
| **Storage / Stability:** | Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles. |

*Continued…*



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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.

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