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Product datasheet for AM26022PU-N

FLT3 Mouse Monoclonal Antibody [Clone ID: BV10A4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BV10A4
Applications:	FC, IP
Recommended Dilution:	Flow cytometry: Tested on cell lines K562 and REH. In this case the recommended concentration is 10 µg/ml per 1 million cells/ml. Immunoprecipitation.
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:	PBS, pH 7.4 containing 0,05% sodium azide as stabilizer State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
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