

ARG65425 anti-CD135 / FLT3 antibody [BV10A4]

Package: 100 μg Store at: -20°C

Summary

Product DescriptionMouse Monoclonal antibody [BV10A4] recognizes CD135 / FLT3Tested ReactivityHuSpecies Does Not React WithMsTested ApplicationFACS, IPSpecificityThe mouse monoclonal antibody BV10A4 (BV10) reacts with CD135 (FLT3, FLK2, STK1), a 130160 kDa type III receptor tyrosine kinase that is involved in early steps of hematopoiesis.HostMouseClonalityMonoclonalOtonalityMonoclonalIsotypeIgG1IsotypeUG135 / FLT3ImmunogenBV-173 leukemic cell lineConjugationUn-conjugatedAlternate NamesCD135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; STK1; STK1; STK1; STK2; STK2		
Species Does Not React WithMsTested ApplicationFACS, IPSpecificityThe mouse monoclonal antibody BV10A4 (BV10) reacts with CD135 (FLT3, FLK2, STK1), a 130160 kDa type III receptor tyrosine kinase that is involved in early steps of hematopoiesis.HostMouseClonalityMonoclonalCloneBV10A4Bv10A4BV10A4IsotypeIgG1Target NameClo13 / FLT3ImmunogenBV-173 leukemic cell lineConjugationUn-conjugatedAlternate NamesCl135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; S	Product Description	Mouse Monoclonal antibody [BV10A4] recognizes CD135 / FLT3
Tested ApplicationFACS, IPSpecificityThe mouse monoclonal antibody BV10A4 (BV10) reacts with CD135 (FLT3, FLK2, STK1), a 130160 kDa type III receptor tyrosine kinase that is involved in early steps of hematopoiesis.HostMouseClonalityMonoclonalCloneBV10A4IsotypeIgG1InmunogenBV-173 leukemic cell lineConjugationUn-conjugatedAlternate NamesCD135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; STK1; FL cytokine receptor; FLT-3; stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK	Tested Reactivity	Hu
SpecificityThe mouse monoclonal antibody BV10A4 (BV10) reacts with CD135 (FLT3, FLK2, STK1), a 130160 kDa type III receptor tyrosine kinase that is involved in early steps of hematopoiesis.HostMouseClonalityMonoclonalCloneBV10A4IsotypeIgG1Target NameCD135 / FLT3ImmunogenBV-173 leukemic cell lineConjugationUn-conjugatedAlternate NamesCD135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; STK1; FL cytokine receptor; FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; Receptor tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; Receptor tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; Receptor tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; Receptor tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; Receptor tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; Receptor tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; Receptor tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; Receptor tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; Receptor tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; Receptor tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; FMS-Like tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; FMS-Like tyrosine kinase 1; Fetal liver kinase 2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK2; FMS-Like tyrosine kinase 1; F	Species Does Not React With	Ms
HostMouseClonalityMonoclonalCloneBV10A4IsotypeIgG1Target NameCl135 / FLT3ImmunogenBV-173 leukemic cell lineConjugationUn-conjugatedAlternate NamesCl135 ; FLK2; Receptor-type tyrosine-protein kinase fLT3; FLK-2; STK-1; STK1; FL cytokine receptor; FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK	Tested Application	FACS, IP
ClonalityMonoclonalCloneBV10A4IsotypeIgG1Target NameCD135 / FLT3ImmunogenBV-173 leukemic cell lineConjugationUn-conjugatedAlternate NamesCD135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; STK1; FL cytokine receptor; FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK	Specificity	
CloneBV10A4IsotypeIgG1Target NameCD135 / FLT3ImmunogenBV-173 leukemic cell lineConjugationUn-conjugatedAlternate NamesCD135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; STK1; FL cytokine receptor; FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK	Host	Mouse
IsotypeIgG1Target NameCD135 / FLT3ImmunogenBV-173 leukemic cell lineConjugationUn-conjugatedAlternate NamesCD135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; STK1; FL cytokine receptor; FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLK	Clonality	Monoclonal
Target NameCD135 / FLT3ImmunogenBV-173 leukemic cell lineConjugationUn-conjugatedAlternate NamesCD135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; STK1; FL cytokine receptor; FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; FLC	Clone	BV10A4
ImmunogenBV-173 leukemic cell lineConjugationUn-conjugatedAlternate NamesCD135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; STK1; FL cytokine receptor; FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; EC	lsotype	lgG1
ConjugationUn-conjugatedAlternate NamesCD135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; STK1; FL cytokine receptor; FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; EC	Target Name	CD135 / FLT3
Alternate Names CD135; FLK2; Receptor-type tyrosine-protein kinase FLT3; FLK-2; STK-1; STK1; FL cytokine receptor; FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; EC	Immunogen	BV-173 leukemic cell line
FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; EC	Conjugation	Un-conjugated
	Alternate Names	FLT-3; Stem cell tyrosine kinase 1; Fetal liver kinase-2; Fms-like tyrosine kinase 3; CD antigen CD135; EC

Application Instructions

Application table	Application	Dilution
	FACS	1 - 4 μg/ml
	IP	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	FACS: K562 and REH.	

Properties

Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

GenelD: 2322 Human
Swiss-port # P36888 Human
FLT3
fms-related tyrosine kinase 3
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.
Tyrosine-protein kinase that acts as cell-surface receptor for the cytokine FLT3LG and regulates differentiation, proliferation and survival of hematopoietic progenitor cells and of dendritic cells. Promotes phosphorylation of SHC1 and AKT1, and activation of the downstream effector MTOR. Promotes activation of RAS signaling and phosphorylation of downstream kinases, including MAPK1/ERK2 and/or MAPK3/ERK1. Promotes phosphorylation of FES, FER, PTPN6/SHP, PTPN11/SHP-2, PLCG1, and STAT5A and/or STAT5B. Activation of wild-type FLT3 causes only marginal activation of STAT5A or STAT5B. Mutations that cause constitutive kinase activity promote cell proliferation and resistance to apoptosis via the activation of multiple signaling pathways. [UniProt]
Immune System antibody; Signaling Transduction antibody
113 kDa
N-glycosylated, contains complex N-glycans with sialic acid. Autophosphorylated on several tyrosine residues in response to FLT3LG binding. FLT3LG binding also increases phosphorylation of mutant kinases that are constitutively activated. Dephosphorylated by PTPRJ/DEP-1, PTPN1, PTPN6/SHP-1, and to a lesser degree by PTPN12. Dephosphorylation is important for export from the endoplasmic reticulum and location at the cell membrane. Rapidly ubiquitinated by UBE2L6 and the E3 ubiquitin-protein ligase SIAH1 after autophosphorylation, leading to its proteasomal degradation.