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Anti-CD135 / FLT3 Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17567

Product Information

Application	IHC-P, E
Primary Accession	P36888
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	112903
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	2322
Alias Symbol	FLT3
Other Names	FLT3, CD135, CD135 antigen, Fetal liver kinase 2, Fetal liver kinase-2, FL cytokine receptor, FLK2, FLT-3, Fms-like tyrosine kinase 3, Stem cell tyrosine kinase 1, STK-1, FLK-2, Fms-related tyrosine kinase 3, STK1
Target/Specificity	Human FLT3 / CD135. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-CD135 / FLT3 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FLT3
Synonyms	CD135, FLK2, STK1
Function	Tyrosine-protein kinase that acts as a 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.
Cellular Location	Membrane; Single-pass type I membrane protein. Endoplasmic reticulum lumen. Note=Constitutively activated mutant forms with internal tandem duplications are less efficiently transported to the cell surface and a significant proportion is retained in an immature form in the endoplasmic reticulum lumen. The activated kinase is rapidly targeted for degradation
Tissue Location	Detected in bone marrow, in hematopoietic stem cells, in myeloid progenitor cells and in granulocyte/macrophage progenitor cells (at protein level). Detected in bone marrow, liver, thymus, spleen and lymph node, and at low levels in kidney and pancreas. Highly expressed in T-cell leukemia