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35-1526: Polyclonal Antibody to FLT3 (Ab-591)

Clonality :	Polyclonal
Application :	WB,IF
Reactivity :	Human
Gene :	FLT3
Gene ID :	2322
Uniprot ID :	P36888
Format :	Purified
Alternative Name :	CD135, FLK-2, FLT-3, FLT3, STK-1
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.589~593 (Y-F-Y-V-D) derived from Human FLT3.

Description

FLT3 encodes a class III receptor tyrosine kinase that regulates hematopoiesis. The receptor consists of an extracellular domain composed of five immunoglobulin-like domains, one transmembrane region, and a cytoplasmic kinase domain split into two parts by a kinase-insert domain. The receptor is activated by binding of the fms-related tyrosine kinase 3 ligand to the extracellular domain, which induces homodimer formation in the plasma membrane leading to autophosphorylation of the receptor. The activated receptor kinase subsequently phosphorylates and activates multiple cytoplasmic effector molecules in pathways involved in apoptosis, proliferation, and differentiation of hematopoietic cells in bone marrow. Mutations that result in the constitutive activation of this receptor result in acute myeloid leukemia and acute lymphoblastic leukemia.

Product Info

Amount :	50 µl / 100 µl
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 130 160 kd, Western blotting: 1:500~1:1000, Immunofluorescence: 1:100~1:200

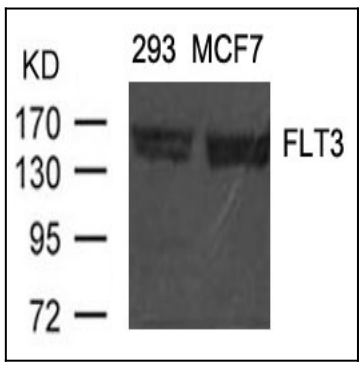

Figure 1: Western blot analysis of extracts from 293 and MCF cells using FLT3(Ab-591) Antibody 35-1526 .

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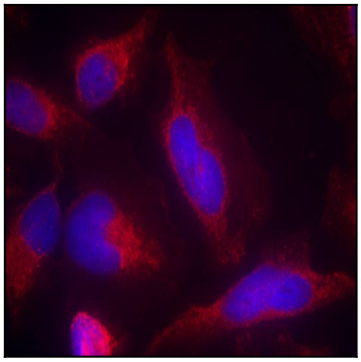

Figure 2: Immunofluorescence staining of methanol-fixed Hela cells using FLT3(Ab-591) Antibody 35-1526 .