

Phospho-FLT3-Y589/591 Rabbit pAb

Catalog No.: AP0529

Basic Information

Observed MW

160kDa

Calculated MW

113kDa

Category

Primary antibody

Applications

ELISA, WB

Cross-Reactivity

Human

Background

This gene encodes a class III receptor tyrosine kinase that regulates hematopoiesis. This 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.

Recommended Dilutions

WB 1:100 - 1:500

Immunogen Information

Gene ID

2322

Swiss Prot

P36888

Immunogen

A synthetic phosphorylated peptide around Y589 & Y591 of human FLT3 (NP_004110.2).

Synonyms

FLK2; STK1; CD135; FLK-2; Phospho-FLT3-Y589/591

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

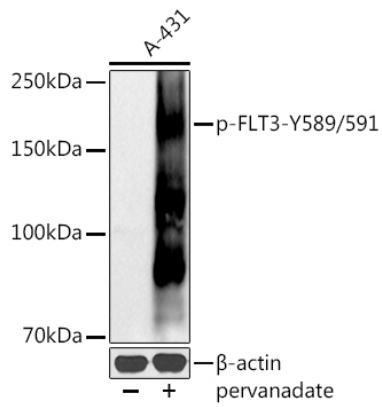
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of lysates from A-431 cells, using Phospho-FLT3-Y589/591 Rabbit pAb (AP0529) at 1:500 dilution. A-431 cells were treated by pervanadate (1 mM) at 37°C for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.