

# AB-PK640

## Flt3-pY842 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase Flt3 (STK1)



# KINEXUS

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### Target Protein

<b>Name Long:</b>	Fetal liver fms-related tyrosine kinase 3; Receptor-type tyrosine-protein kinase FLT3
<b>Alias:</b>	CD135; Fetal liver kinase 2; FL cytokine receptor; FLK2; FLK-2; FLT-3; Fms-related tyrosine kinase 3; Kinase Flt3; STK-1; RP11-153M24_3; CD135; STK1; FLK2; ENSG00000122025
<b>UniProt ID:</b>	P36888
<b>Sequence Predicted Mass (KDa):</b>	112.903 (993 AA; P36888); 108.378 (952 AA; P36888-2)
<b>Observed SDS-PAGE Mass (KDa):</b>	120-130, 165-175

### Immunogen

<b>Antibody Immunogen Source:</b>	Human Flt3 (STK1) sequence peptide Cat. No.: PE-04AMJ99
<b>Antibody Immunogen Sequence:</b>	DSN(pY)VVR(bA)C (bA) = beta-alanine
<b>Location in Target:</b>	Corresponds to amino acid residues D839 to R845; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
<b>Peptide Type:</b>	For phosphosite-specific recognition of target.
<b>Target Phosphosite:</b>	Tyr-842

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Ig Isotype Clone Lot:</b>	Immunoglobulin G
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from each animal was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. This antibody was also subject to negative purification over phosphotyrosine-agarose.
<b>Antibody Amount:</b>	25 µg
<b>Antibody Concentration:</b>	0.5 / 1.0 mg/ml
<b>Lot Number:</b>	150305 / 160301
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
<b>Storage Conditions and Stability:</b>	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.

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### Applications

<b>Product Use:</b>	Western blotting   Antibody microarrays
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human, mouse, rat and many other mammals
<b>Antibody Positive Controls:</b>	Very strong immunoreactivity with immunogen peptide on dot blots. Medium immunoreactivity with recombinant human Flt3 on protein dot blots.
<b>Detection by Immunoblotting in Cell/Tissue Lysates:</b>	Strong immunoreactivity of a target-sized protein by Western blotting in MCF7 cells.
<b>Overall Antibody Specificity:</b>	Medium selectivity
<b>Antibody Cross Reactivities:</b>	Medium immunoreactivity on protein dot blots with recombinant human Kit and weaker immunoreactivity with CSF1R. In MCF7 cells not harvested with SDS, no significant cross-reactivities were evident. Following homogenization in SDS-PAGE sample buffer, five cross-reactive proteins were evident in EGF-treated A431 cells, five cross-reactive proteins were noted in insulin-treated MCF7 cells, and five cross-reactive proteins were observed in phenylarsine oxide (PAO)+vanadate-treated HeLa cells.

This product is for in vitro research use only and is not intended for use in humans or animals.

For more information on our products please visit [www.kinexusproducts.ca](http://www.kinexusproducts.ca) or contact us at 1-866-KINEXUS(546-3987)