

AB-PK636

FGFR3-pY647+pY648 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase FGFR3



KINEXUS

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Target Protein

Name Long:	Fibroblast growth factor receptor 3
Alias:	ACH; CD333; CEK2; FGFR-3; Fibroblast growth factor receptor 3; Heparin-binding growth factor receptor; HSFGR3E; JTK4; Kinase FGFR3; SAM3; CCDS3353.1; ENSG00000068078
UniProt ID:	P22607
Sequence Predicted Mass (KDa):	88.157 (808 AA; P22607-2); 87.710 (806 AA; P22607); 85.083 (791 AA; P22607-4); 75.696 (694 AA; P22607-3)
Observed SDS-PAGE Mass (KDa):	95-100

Immunogen

Antibody Immunogen Source:	Human FGFR3 sequence peptide Cat. No.: PE-04AFI90
Antibody Immunogen Sequence:	NLD(pY)(pY)KK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues N644 to K650; In the protein kinase catalytic domain activation T loop region between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-647+Tyr-648

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Ig Isotype Clone Lot:	Immunoglobulin G
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipеп peptide 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.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	150106
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerasol
Storage Conditions and Stability:	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

Product Use:	Western blotting Antibody microarrays
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human, mouse, rat and many other vertebrates; Phosphosite is highly conserved in diverse species
Antibody Positive Controls:	Medium immunoreactivity with immunogen peptide on dot blots. Weak reactivity with recombinant human FGFR3 on protein dot blots.
Antibody Cross Reactivities:	Strong immunoreactivity on protein dot blots with recombinant human FGFR2 and weaker immunoreactivity with recombinant human FGFR1, and FGFR4, which feature similar phosphosites.

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 or contact us at 1-866-KINEXUS(546-3987)