

AB-PK634

FGFR1-pY653+pY654 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase FGFR1



KINEXUS

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Target Protein

Name Long:	Fibroblast growth factor receptor-tyrosine kinase 1; Basic fibroblast growth factor receptor 1
Alias:	BFGFR; BFGF-R; CD331; CEK; C-fgr; FGFBR; FGFR-1; Fgr; FLT2; KAL2; Pfeiffer syndrome; HBGFR; KAL2; N-SAM; OGD; bFGF-R-1; H2; H3; H4; H5
UniProt ID:	P11362
Sequence Predicted Mass (KDa):	95.344 (853 AA; P11362-21); 91.868 (822 AA; P11362); 91.760 (822 AA; P11362-19); 91.668 (820 AA; P11362-4); 91.580 (820 AA; P11362-14); 90.618 (812 AA; P11362-20); 82.162 (733 AA; P11362-6); 81.962 (731 AA; P11362-8); 81.875 (731 AA; P11362-15); 74.133 (662 AA; P11362-10); 73.933 (660 AA; P11362-12); 73.475 (662 AA; P11362-2); 73.274 (660 AA; P11362-5); 63.769 (573 AA; P11362-7); 63.569 (571 AA; P11362-9); 55.740 (502 AA; P11362-11); 55.540 (500 AA; P11362-13); 33.412 (302 AA; P11362-17); 33.125 (300 AA; P11362-18); 16.487 (150 AA; P11362-16); 6.682 (61 AA; P11362-3)
Observed SDS-PAGE Mass (KDa):	100-110

Immunogen

Antibody Immunogen Source:	Human FGFR1 sequence peptide
Antibody Immunogen Sequence:	HID(pY)(pY)KKT(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues H650 to T657; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII.
Peptide Type:	For phosphosite-specific recognition of target.
Target Phosphosite:	Tyr-653+Tyr-654

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 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.
Antibody Amount:	25 µg
Antibody Concentration:	1 mg/ml
Lot Number:	141003
Storage Buffer:	Phosphate buffered saline (PBS) pH7.4, 0.05% Thimerazol
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:	Strong immunoreactivity with immunogen peptide on dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of a target-sized protein by Western blotting in HeLa cells.
Overall Antibody Specificity:	High-very high selectivity
Antibody Cross Reactivities:	Strong immunoreactivity on protein dot blots with recombinant human FGFR2 and weak with FGFR3 and FGFR4 on protein dot blots. The target phosphosites in FGFR1 are conserved in FGFR2. No significant cross-reactive proteins detected in A431, HeLa, MCF7 cells, but the top and bottom regions of gels had high backgrounds in MCF7 cells. No cross-reactive proteins were detected with sea star oocytes.

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)