

AB-PK635

FGFR2-pY656+pY657 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase FGFR2 (BEK)



KINEXUS

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Target Protein

Name Long:	Fibroblast growth factor receptor-tyrosine kinase 2 (BEK)
Alias:	BEK; BFR1; BFR-1; CD332; CEK3; CFD1; Crouzon syndrome; ECT1; K-SAM; TK25; KGFR; K-SAM; JWS; CD332; TK14; TK25; ENSG00000066468
UniProt ID:	P21802; Q7KZ14; Q16888
Sequence Predicted Mass (KDa):	92.733 (830 AA; P21802-11); 92.153 (822 AA; P21802-16); 92.118 (822 AA; P21802-3); 92.025 (821 AA; P21802); 91.918 (820 AA; P21802-18); 91.825 (819 AA; P21802-5); 91.641 (819 AA; P21802-10); 91.620 (817 AA; P21802-7); 91.566 (819 AA; P21802-9); 88.181 (785 AA; P21802-6); 86.407 (771 AA; P21802-12); 86.223 (769 AA; P21802-17); 86.130 (768 AA; P21802-2); 86.110 (768 AA; P21802-13); 85.929 (766 AA; P21802-8); 79.833 (709 AA; P21802-23); 79.300 (707 AA; P21802-21); 79.212 (705 AA; P21802-15); 79.197 (704 AA; P21802-20); 76.705 (682 AA; P21802-4); 76.423 (680 AA; P21802-22); 40.614 (366 AA; P21802-19); 28.299 (254 AA; P21802-14)
Observed SDS-PAGE Mass (KDa):	100-110

Immunogen

Antibody Immunogen Source:	Human FGFR2 (BEK) sequence peptide Cat. No.: PE-04AFJ95
Antibody Immunogen Sequence:	DID(pY)(pY)KK(bA)C (bA) = beta-alanine
Location in Target:	Corresponds to amino acid residues D653 to K659; 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-656+Tyr-657

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 multipепeptide 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:	150205
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:	Very strong immunoreactivity with recombinant human FGFR2 on protein dot blots.
Detection by Immunoblotting in Cell/Tissue Lysates:	Medium immunoreactivity of a target-sized protein by Western blotting in A431, HeLa and Jurkat cells.
Overall Antibody Specificity:	High selectivity
Antibody Cross Reactivities:	Medium immunoreactivity on protein dot blots with recombinant human FGFR1 and weak immunoreactivity with recombinant human FGFR3 and FGFR4, which feature nearly identical sequences. No significant cross-reactive proteins detected in A549 cells. Phenylarsine oxide (PAO) treatment increased 27 and 15 kDa proteins in HeLa cells. Phenylarsine oxide (PAO) treatment also increased 15 kDa protein immunoreactivity in Jurkat 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 or contact us at 1-866-KINEXUS(546-3987)