

AB-PK629

FAK-pY577 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase FAK (PTK2)



KINEXUS

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Target Protein

| | |
|---------------------------------------|---|
| Name Long: | Focal adhesion protein-tyrosine kinase |
| Alias: | FADK1; FAK1; pp125FAK; FRNK; Protein-tyrosine kinase 2; PTK2; CCDS6381.1; ENSG00000169398 |
| UniProt ID: | Q05397 |
| Sequence Predicted Mass (kDa): | 120.900 (1065 AA; Q05397-5); 119.233 (1052 AA; Q05397); 114.253 (1006 AA; Q05397-7); 99.358 (879 AA; Q05397-2); 63.201 (554 AA; Q05397-3); 48.967 (431 AA; Q05397-4); 39.874 (360 AA; Q05397-6) |
| Observed SDS-PAGE Mass (kDa): | 105-115 |

Immunogen

| | |
|-------------------------------------|--|
| Antibody Immunogen Source: | Human FAK (PTK2) sequence peptide Cat. No.: PE-04AKH95 |
| Antibody Immunogen Sequence: | STY(pY)KAS(bA)C (bA) = beta-alanine |
| Location in Target: | Corresponds to amino acid residues S574 to S580; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII. |
| Peptide Type: | For phosphosite-specific recognition of target. |
| Target Phosphosite: | Tyr-577 |

Production

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|--|--|
| 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 multipep 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: | 141024 |
| 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 immunogen peptide on dot blots. |
| Overall Antibody Specificity: | Very high selectivity |
| Antibody Cross Reactivities: | No significant cross-reactive proteins detected in A431 cells, HeLa cells and sea star oocytes, except for a 75 KDa protein that was observed in FBS-treated A431 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)