

AB-PK607

EphA2-pY772 Antibody

Phosphosite-specific polyclonal antibody for monitoring the phosphorylation of human protein-tyrosine kinase EphA2



KINEXUS

Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Email: info@kinexus.ca
Phone: 604-323-2547

Target Protein

| | |
|---------------------------------------|--|
| Name Long: | Ephrin type-A receptor 2 protein-tyrosine kinase |
| Alias: | ECK; EPH receptor A2; Epithelial cell kinase; Kinase EphA2; MPK-5; SEK2; SEK-2; Tyrosine-protein kinase receptor ECK; RCC2; CCDS169.1; ENSG00000142627 |
| UniProt ID: | P29317 |
| Sequence Predicted Mass (kDa): | 108.266 (976 AA; P29317); 54.305 (497 AA; P29317-2) |
| Observed SDS-PAGE Mass (kDa): | 115-130 |

Immunogen

| | |
|-------------------------------------|---|
| Antibody Immunogen Source: | Human EphA2 sequence peptide Cat. No.: PE-04ALX90 |
| Antibody Immunogen Sequence: | EAT(pY)TTS(bA)C (bA) = beta-alanine |
| Location in Target: | Corresponds to amino acid residues E769 to S775; In protein kinase catalytic domain activation T-loop between subdomains VII and VIII. This is the major in vivo phosphorylation site in EphA2. |
| Peptide Type: | For phosphosite-specific recognition of target. |
| Target Phosphosite: | Tyr-772 |

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 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: | 0.5 / 0.2 mg/ml |
| Lot Number: | 150305 / 160301 |
| 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 mammals; Phosphosite is highly conserved in mammals |
| Antibody Positive Controls: | Very strong immunoreactivity with immunogen peptide on dot blots. |
| Overall Antibody Specificity: | High selectivity |
| Antibody Cross Reactivities: | No significant cross-reactive proteins detected in MCF7 and HepG2 cells, except for a medium ~75 KDa cross-reactive protein in both cell lines. |

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)