

# AB-PK529

## AurKA-pT287+pT288 Antibody

Phosphosite-specific rabbit polyclonal antibody for AurKA (ARK-1; AIK; STK15)

Website: [www.kinexus.ca](http://www.kinexus.ca)  
Email: [info@kinexus.ca](mailto:info@kinexus.ca)  
Phone: 604-323-2547



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

### Target Protein

|                                |  |
|--------------------------------|--|
| <b>Protein Name Long:</b>      | Aurora Kinase A (serine/threonine protein kinase 6)  |
| <b>Protein Alias:</b>          | AIK; ARK1; Aurka; Aurora kinase A; Aurora, IPL1-related kinase 1; Aurora/IPL1-related kinase 1; Aurora-1; Aurora-A; Aurora-family kinase 1; STK7; BTAK; STK15; STK6; AURORA2; AurA; MGC34538; CCDS13451.1; ENSG00000087586 |
| <b>UniProt ID:</b>             | O14965   |
| <b>Protein Molecular Mass:</b> | 45,809 Da (403 AA; O14965)   |

### Immunogen

|  |   |
|--|---|
| <b>Antibody Immunogen Source:</b>      | Human AurKA (Aurora A, AIK, STK15) sequence peptide Cat. No.: PE-04AHD99  |
| <b>Antibody Immunogen Sequence:</b>    | RR(pT)(pT)LCG(bA)C  |
| <b>Antibody Immunogen Description:</b> | Corresponds to amino acid residues R285 to G291; in the protein kinase catalytic domain activation T loop region between subdomains VII and VIII. T287 and T288 phosphorylation stimulate phosphotransferase activity. These are two of the major <i>in vivo</i> phosphorylation sites in AurKA ( $\geq 6$ and $\geq 16$ reports, respectively, by mass spectrometry). AurKA is known to be phosphorylated <i>in vitro</i> at T287 by AurKA, and at T288 by AurKA, PAK1, and PKACa. |
| <b>Antibody Target Type:</b>           | Phosphosite-specific  |

### Production

|                                |   |
|--------------------------------|---|
| <b>Antibody Host Species:</b>  | Rabbit  |
| <b>Antibody Type:</b>          | Polyclonal  |
| <b>Antibody Isotype:</b>       | IgG   |
| <b>Production Method:</b>      | 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 these animals 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. |
| <b>Amount:</b>                 | 25 $\mu$ g  |
| <b>Antibody Concentration:</b> | 1 mg/ml   |
| <b>Lot Numbers:</b>            | 150205  |
| <b>Storage Buffer:</b>         | Phosphate buffered saline pH 7.4, 0.05% Thimerasol  |

|                            |   |
|----------------------------|---|
| <b>Storage Conditions:</b> | 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. |
| <b>Storage Stability:</b>  | >2 years  |

## Applications

|                                       |  |
|---------------------------------------|--|
| <b>Product Use:</b>                   | Western blotting   Antibody microarray   |
| <b>Antibody Dilution Recommended:</b> | 2 µg/ml for immunoblotting   |
| <b>Antibody Species Reactivity:</b>   | Human   Chimpanzee   Dog   Rat   Frog  |
| <b>Antibody Positive Control:</b>     | The observed molecular mass of the processed target protein on SDS-PAGE gels is reported to be around 45-50 kDa.                         |
| <b>Antibody Specificity:</b>          | Very high  |
| <b>Antibody Cross Reactivity:</b>     | No immunoreactivity on protein dot blots with recombinant human AurKB or AurKC. No cross-reactive proteins detected in 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 <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987