

# Immunotag™ Phospho-Aurora Kinase (Thr288) Antibody

| Antibody Specification |  |
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| Catalog No.            | ITA0783  |
| Product Description    | Immunotag™ Phospho-Aurora Kinase (Thr288) Antibody   |
| Size                   | 100 µg, 200 µg   |
| Conjugation            | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647                                      |
| IMPORTANT NOTE         | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return. |
| Target Protein         | Phospho-Aurora Kinase (Thr288)   |
| Clonality              | Polyclonal   |
| Storage/Stability      | -20°C/1 year   |
| Application            | WB,IHC,IF/ICC,ELISA  |
| Recommended Dilution   | WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500   |
| Concentration          | 1 mg/ml  |
| Reactive Species       | Human,Mouse,Rat  |
| Host Species           | Rabbit   |
| Immunogen              | A synthesized peptide derived from human Aurora Kinase around the phosphorylation site of Threonine 288  |
| Specificity            | Phospho-Aurora Kinase (Thr288) Antibody detects endogenous levels of Aurora Kinase only when phosphorylated at Threonine 288                                       |
| Purification           | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.            |
| Form                   | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt        |
| Gene Name              | AURKA  |
| Accession No.          | O14965   |

## Antibody Specification

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| Alternate Names           | AIK; ARK-1; ARK1; AURA; Aurka; Aurora 2; Aurora A; Aurora kinase A; Aurora-related kinase 1; Aurora/IPL1 like kinase; Aurora/IPL1-related kinase 1; AURORA2; Breast tumor-amplified kinase; BTAK; hARK1; IAK; IPL1 related kinase; MGC34538; OTTHUMP00000031340; OTTHUMP00000031341; OTTHUMP00000031342; OTTHUMP00000031343; OTTHUMP00000031344; OTTHUMP00000031345; OTTHUMP00000166071; OTTHUMP00000166072; PPP1R47; Protein phosphatase 1, regulatory subunit 47; Serine/threonine kinase 15; Serine/threonine kinase 6; Serine/threonine-protein kinase 15; Serine/threonine-protein kinase 6; Serine/threonine-protein kinase aurora-A; STK15; STK6; STK6_HUMAN; STK7;  |
| Description               | Mitotic serine/threonine kinase that contributes to the regulation of cell cycle progression. Associates with the centrosome and the spindle microtubules during mitosis and plays a critical role in various mitotic events including the establishment of mitotic spindle, centrosome duplication, centrosome separation as well as maturation, chromosomal alignment, spindle assembly checkpoint, and cytokinesis. Required for initial activation of CDK1 at centrosomes. Phosphorylates numerous target proteins, including ARHGEF2, BORA, BRCA1, CDC25B, DLGP5, HDAC6, KIF2A, LATS2, NDEL1, PARD3, PPP1R2, PLK1, RASSF1, TACC3, p53/TP53 and TPX2. Regulates KIF2A tubulin depolymerase activity. Required for normal axon formation. Plays a role in microtubule remodeling during neurite extension. Important for microtubule formation and/or stabilization. Also acts as a key regulatory component of the p53/TP53 pathway, and particularly the checkpoint-response pathways critical for oncogenic transformation of cells, by phosphorylating and stabilizing p53/TP53. Phosphorylates its own inhibitors, the protein phosphatase type 1 (PP1) isoforms, to inhibit their activity. Necessary for proper cilia disassembly prior to mitosis. |
| Cell Pathway/<br>Category | Primary Polyclonal Antibody   |
| Protein MW                | 48kDa   |
| Usage                     | For Research Use Only! Not for diagnostic or therapeutic procedures.  |