# ARK-1 Antibody – Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | ARK-1, Polyclonal Antibody |
| **Full Product Name** | ARK-1 Polyclonal Antibody |
| **Product Gene Name** | anti-ARK-1 antibody |
| **Clonality** | Polyclonal |
| **Molecular Weight** | 45,809 Da |
| **OMIM** | 603072 |
| **3D Structure** | ModBase 3D Structure for O14965 |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for anti-ARK-1 antibody** | MBS8521306 is an antibody targeting ARK-1. Also known as ARK-1 Polyclonal Antibody. |
| **Other Notes** | Small volumes of anti-ARK-1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARK-1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 1020158885 |
| **NCBI GeneID** | 6790 |
| **NCBI Accession #** | NP_001310232.1 |
| **UniProt Primary Accession #** | O14965 |
| **UniProt Secondary Accession #** | O60445; O75873; Q9BQD6; Q9UPG5; E1P5F9 |
| **UniProt Related Accession #** | O14965 |
| **GenBank Nucleotide #** | NM_001323303.1 |
| **NCBI Official Full Name** | aurora kinase A |
| **NCBI Official Synonym Full Names** | aurora kinase A |
| **NCBI Official Symbol** | AURKA |
| **NCBI Official Synonym Symbols** | AIK; ARK1; AURA; BTAK; STK6; STK7; STK15; PPP1R47 |
| **UniProt Protein Name** | Aurora kinase A |
| **UniProt Synonym Protein Names** | Aurora 2; Aurora/IPL1-related kinase 1; ARK-1; Aurora-related kinase 1; hARK1; Breast tumor-amplified kinase; Serine/threonine-protein kinase 15; Serine/threonine-protein kinase 6; Serine/threonine-protein kinase aurora-A |
| **Protein Family** | Ack-related non-receptor tyrosine kinase |
| **UniProt Gene Name** | AURKA |
| **UniProt Synonym Gene Names** | AIK; AIRK1; ARK1; AURA; AYK1; BTAK; IAK1; STK15; STK6; ARK-1; Aurora-related kinase 1; hARK1 |
| **NCBI Protein Information** | aurora kinase A |

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| **NCBI Summary for ARK-1** | The protein encoded by this gene is a cell cycle-regulated kinase that appears to be involved in microtubule formation and/or stabilization at the spindle pole during chromosome segregation. The encoded protein is found at the centrosome in interphase cells and at the spindle poles in mitosis. This gene may play a role in tumor development and progression. A processed pseudogene of this gene has been found on chromosome 1, and an unprocessed pseudogene has been found on chromosome 10. Multiple transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for ARK-1** | 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. |
| **Research Articles on ARK-1** | **1.** In patients who received alisertib for advanced or metastatic urothelial carcinoma, longer progression-free survival was observed in carriers of the minor allele A of rs2273535 in AURKA than in patients who were homozygous for the major allele T. |
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