ARK-1 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	ARK-1, Polyclonal Antibody
Full Product Name	ARK-1 (phospho Ser342) 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	MBS8520788 is an antibody targeting ARK-1. Also known as ARK-1 (phospho Ser342) 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.

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

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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