

Product datasheet for TP506182

Aurka (BC005425) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse aurora kinase A (cDNA clone MGC:5804 IMAGE:3590706), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206182 protein sequence Red =Cloning site Green =Tags(s)

MDRCKENCVSRPVKTTVPFGPKRVLVTEQIPSQNLGSASSGQAQRVLCPSNSQRVPSQAQKLGAGQKPAP
KQLPAASVPRPVSRLNNPQKNEQPAASGNDSEKEQASLQKTEDTKKRQWTLEDFDIGRPLGKGFVNVYL
ARERQSKFILALKVLFKTQLEKANVEHQLRREVEIQSHLRHPNLRLYGYFHDATRVYLILEYAPLGTVY
RELQKLSKFDEQRTATYITELANALSYCHSKRVIHRDIKPENLLLGSNGELKIADFGWSVHAPSSRRTTM
CGTLDYLPPEMIEGRMHDEKVDLWLSGLVLCYEFVGMPPFEAHTYQETYRRISRVEFTFPDFVTEGARDL
ISRLKHNASQRLTLAEVLEHPWIKANSSKPTGHTSKEPTSKSS

TRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	44.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Locus ID:	20878
UniProt ID:	<u>P97477</u>



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RefSeq Size:	1850
Cytogenetics:	2 94.84 cM
RefSeq ORF:	1185
Synonyms:	IAK, Ark1, Ayk1, AIRK1, Aurora-A
Summary:	<p>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 normal spindle positioning during mitosis and for the localization of NUMA1 and DCTN1 to the cell cortex during metaphase (By similarity). 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.[UniProtKB/Swiss-Prot Function]</p>