

# Protein kinase APK1A, chloroplastic (APK1A), Recombinant Protein

Cat *RP04824*

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)  
Species Arabidopsis thaliana (Mouse-ear cress)

## Full Product Name

Recombinant Arabidopsis thaliana Protein kinase APK1A, chloroplastic (APK1A)

## Product Gene Name

APK1A recombinant protein

## Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

## Sequence

PSPRTEGEIL QSPNLKSFSF AELKSATRNFPDPSVLGEGG FGCVFKGWID EKSLTASRPG TGLVIAVKKL  
NQDGWQGHQE WLAEVNVLGQ FSHRHLVKLI GYCLEDHRL LVYEFMPRGS LENHLFRRGL YFQPLSWKLR  
LKVALGAAKG LAFHSSETR VIYRDFKTSN ILLDSEYNAK LSDFGLAKDG PIGDKSHVST RVMGTHGYAA  
PEYLATGHLT TKSDVYSFGV VLLELLSGRR AVDKNRPSGE RNLVEWAKPY LVNKRKIFRV IDNRLQDQYS  
MEEACKVATL SLRCLTTEIK LRPNMSEVVS HLEHIQSLNA AIGGNMDKTD RRMRRRSDSV VSKKVNAGFA  
RQTAVGSTVV AYPRPSASPL YV

## Sequence Positions

39-410, Full length protein

## Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

## Host

E Coli or Yeast or Baculovirus or Mammalian Cell

## Molecular Weight

45,519 Da

## Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

## Protein Family

Protein kinase

## NCBI Accession #

NP\_001320608.1

## NCBI GI #

1063681258

## NCBI GenBank Nucleotide #

NM\_001331710.1

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

# Protein kinase APK1A, chloroplastic (APK1A), Recombinant Protein

Cat      *RP04824*

Size      0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg  
(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg  
(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-  
837271 Cell)

## NCBI GeneID

## NCBI Official Full Name

Protein kinase superfamily protein

## NCBI Official Symbol

APK1A

## NCBI Official Synonym Symbols

APK1; F22G5.5; F22G5\_5

## NCBI Protein Information

Protein kinase superfamily protein

## NCBI Summary

Protein kinase capable of phosphorylating tyrosine, serine, and threonine residues

## UniProt Gene Name

PBL9

## UniProt Protein Name

Probable serine/threonine-protein kinase PBL9

## UniProt Synonym Protein Names

PBS1-like protein 9

## UniProt Primary Accession #

Q06548

## UniProt Secondary Accession #

Q9LNY0

## UniProt Related Accession #

Q06548

## UniProt Comments

Possible bi-functional kinase. In vitro, it exhibits serine/threonine activity. In vivo, it can phosphorylate tyrosine residues of limited substrates (PubMed:1450380). May be involved in plant defense signaling .

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