

Datasheet for ABIN7194159

**Adenylate Kinase 2 Protein (AK2) (GST tag,His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	Adenylate Kinase 2 (AK2)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Adenylate Kinase 2 protein is labelled with GST tag,His tag.

## Product Details

Purpose:	Recombinant Human AK2/Adenylate kinase 2 Protein (His & GST Tag)
Sequence:	Met 1-Ile 239
Characteristics:	A DNA sequence encoding the human AK2 isoform 1 (P54819-1) (Met 1-Ile 239) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

## Target Details

Target:	Adenylate Kinase 2 (AK2)
Alternative Name:	AK2/Adenylate kinase 2 ( <a href="#">AK2 Products</a> )
Background:	Background: Adenylate kinase 2 (AK2) belongs to the Adenylate kinase family that contains three isozymes: AK1, AK2 and AK3. Adenylate kinases are involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups

## Target Details

among adenine nucleotides. Adenylate kinase2 (AK2) is expressed in mitochondrial intermembrane space. It may play a role in apoptosis. It has been demonstrated that in apoptotic cells AK2 was translocated into the cytosol concomitantly with cytochrome C. Mutations in this gene are the cause of reticular dysgenesis. These mutations result in absent or strongly decreased protein expression. It has been also established that AK2 is specifically expressed in the stria vascularis region of the inner ear, which provides an explanation of the sensorineural deafness in these individuals.

Synonym: ADK2;AK2

Molecular Weight: 54.3 kDa

Pathways: [Nucleotide Phosphorylation](#), [Ribonucleoside Biosynthetic Process](#)

## Application Details

Restrictions: For Research Use only

## Handling

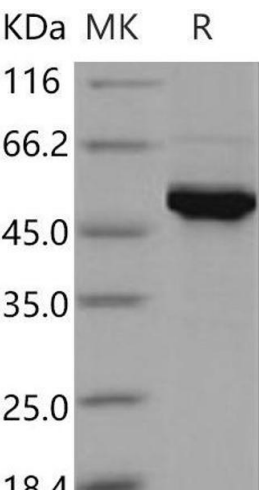
Format: Frozen, Liquid

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 8.0, 10 % glycerol, 3 mM DTT

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

## Images



### Western Blotting

Image 1.