

For Research Use Only

# AK2 Recombinant antibody, PBS Only (Capture)

Catalog Number: 85406-3-PBS



## Basic Information

Catalog Number:	85406-3-PBS	GenBank Accession Number:	BC009405	Purification Method:	Protein A purification
Concentration:	1 mg/ml	GeneID (NCBI):	204	CloneNo.:	242899H7
Source:	Rabbit	UNIPROT ID:	P54819		
Isotype:	IgG	Full Name:	adenylate kinase 2		
Immunogen Catalog Number:	AG1464	Calculated MW:	26 kDa		
		Observed MW:	26 kDa		

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human, mouse, rat

## Background Information

AK2 (Adenylate kinase 2, mitochondrial) is also named as ADK2 and belongs to the adenylate kinase family. It plays a unique role in energy metabolism and energy transfer by regulating the ATP/ADP rate between the cytoplasmic matrix and the mitochondria and it is increased expression during adipocyte and B cell differentiation (PMID:23020757). AK2 catalyzes the reversible transfer of a phosphoryl group from ATP to AMP (PMID:19043417). Defects in AK2 are the cause of reticular dysgenesis (RDYS) (PMID:19043416). It has 6 isoforms produced by alternative splicing.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

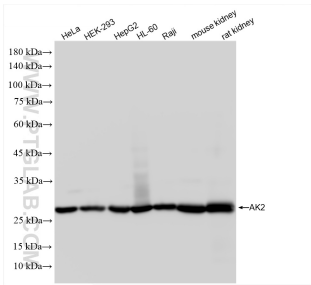
T: 4006900926

E: Proteintech-CN@ptglab.com

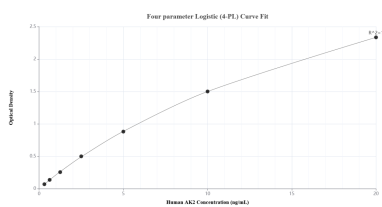
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

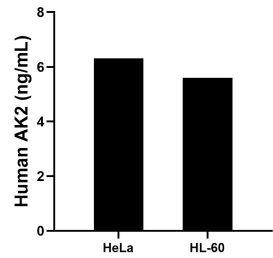
Selected Validation Data



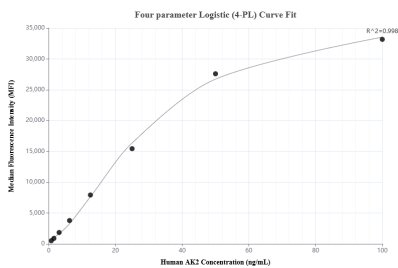
Various lysates were subjected to SDS PAGE followed by western blot with 85406-3-RR (AK2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85406-3-PBS in a different storage buffer formulation.



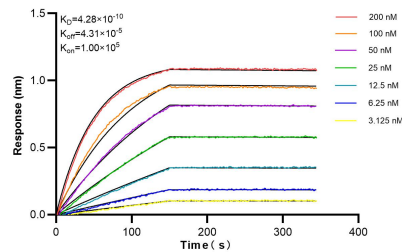
Sandwich ELISA standard curve of MP01927-3, Human AK2 Recombinant Matched Antibody Pair - PBS only. 85406-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag1464. 85406-2-PBS was HRP conjugated as the detection antibody. Range: 0.313-20 ng/mL.



The mean AK2 concentration was determined to be 6.31 ng/mL in HeLa cell extract based on a 2.10 mg/mL extract load and 5.60 ng/mL in HL-60 cell extract based on a 1.50 mg/mL extract load.



Cytometric bead array standard curve of MP01927-1, AK2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85406-3-PBS. Detection antibody: 85406-1-PBS. Standard: Ag1464. Range: 0.781-100 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 85406-3-RR against Human AK2 were performed. The affinity constant is 0.428 nM.