For Research Use Only

AK2 Recombinant antibody, PBS Only (Capture)

Catalog Number:85406-3-PBS

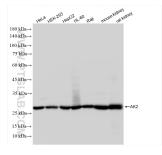


Basic Information	Catalog Number:	GenBank Accession Number:	Purification Method:		
	85406-3-PBS	BC009405	Protein A purification		
	Size:	GenelD (NCBI):	CloneNo.:		
	100ug , Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG1464	204	242899H7		
		UNIPROT ID:			
		P54819			
		Full Name: adenylate kinase 2 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					
Product Information	85406-3-PBS targets AK2 as part of a matched antibody pair:				
	MP01927-1: 85406-3-PBS capture and 85406-1-PBS detection (validated in Cytometric bead array)				
	MP01927-3: 85406-3-PBS capture and 85406-2-PBS detection (validated in Sandwich ELISA)				
	Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.				
	This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.				
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 cytoplasma 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. Storage Buffer: PBS Only				

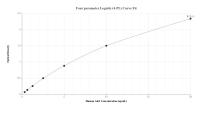
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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

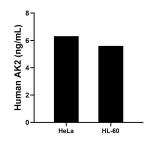
Selected Validation Data



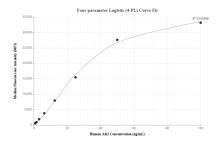
Various lysates were subjected to SDS PAGE followed by western blot with 85406-3-RR (AK2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85406-3-PBS in a different storage buffer formulation.

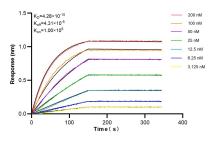


Sandwich ELISA standard curve of MP01927-3, Human AK2 Recombinant Matched Antibody Pair -PBS only. 85406-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag1464. 85406-2-PBS was HRP conjugated as the detection antibody. Range: 0.313-20 ng/mL



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