

For Research Use Only

# PDK4 Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 83583-3-PBS



## Basic Information

|  |   |   |
|--|---|---|
| <b>Catalog Number:</b><br>83583-3-PBS                      | <b>GenBank Accession Number:</b><br>BC040239                  | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ug, Concentration: 1 mg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>5166                                 | <b>CloneNo.:</b><br>240551F1                          |
| <b>Source:</b><br>Rabbit                                   | <b>UNIPROT ID:</b><br>Q16654                                  |   |
| <b>Isotype:</b><br>IgG                                     | <b>Full Name:</b><br>pyruvate dehydrogenase kinase, isozyme 4 |   |
| <b>Immunogen Catalog Number:</b><br>AG3629                 | <b>Calculated MW:</b><br>411 aa, 46 kDa                       |   |

## Applications

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

**Species Specificity:**  
human

## Product Information

83583-3-PBS targets PDK4 as part of a matched antibody pair:

MP00556-1: 83583-2-PBS capture and 83583-3-PBS detection (validated in Cytometric bead array)

MP00556-3: 83583-3-PBS capture and 83583-1-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.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

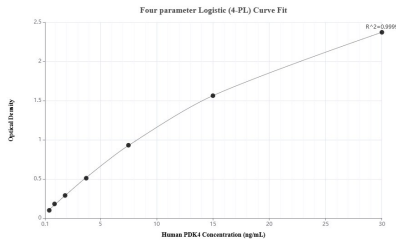
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

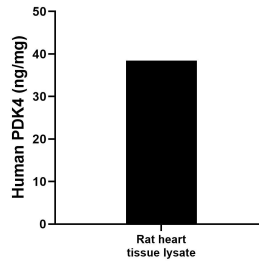
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

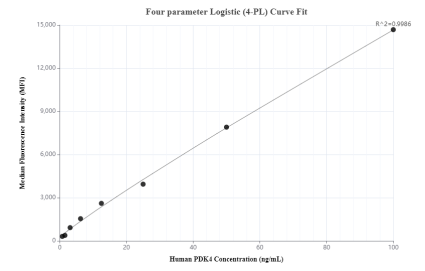
## Selected Validation Data



Sandwich ELISA standard curve of MP00556-3, Human PDK4 Recombinant Matched Antibody Pair - PBS only. 83583-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag3629. 83583-1-PBS was HRP conjugated as the detection antibody. Range: 0.47-30 ng/mL



Dissect the rat heart tissue and wash briefly with chilled 1X PBS to remove any blood if necessary, cut the tissue into smaller pieces whilst keeping it on ice. Transfer the tissue to a homogenizer and add Extraction Reagent with protease inhibitor. In general, add 500  $\mu$ L Extraction Reagent for approximately every 10 mg of tissue. Homogenize thoroughly and keep the sample on ice for 30 min. Sonicate the sample and centrifuge at 10,000 x g, then transfer the supernatant to assay. PDK4 in rat



Cytometric bead array standard curve of MP00556-1, PDK4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83583-2-PBS. Detection antibody: 83583-3-PBS. Standard: Ag3629. Range: 0.78-100 ng/mL