

For Research Use Only

# PTK7 Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 85075-1-PBS



## Basic Information

<b>Catalog Number:</b> 85075-1-PBS	<b>GenBank Accession Number:</b> BC071557	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5754	<b>CloneNo.:</b> 242720A5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13308	
<b>Isotype:</b> IgG	<b>Full Name:</b> PTK7 protein tyrosine kinase 7	
<b>Immunogen Catalog Number:</b> AG12026	<b>Calculated MW:</b> 1070 aa, 118 kDa	
	<b>Observed MW:</b> 140 kDa	

## Applications

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

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

## Product Information

85075-1-PBS targets PTK7 as part of a matched antibody pair:

MP01800-1: 85075-1-PBS capture and 85075-2-PBS detection (validated in Cytometric bead array)

MP01800-3: 85075-2-PBS capture and 85075-1-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.

## Background Information

Protein tyrosine kinase 7 (PTK7), also known as colon carcinoma kinase 4 (CCK4), is an atypical receptor tyrosine kinase that consists of an extracellular domain with seven immunoglobulin-like domains, a transmembrane domain, and a catalytically defective tyrosine kinase domain (PMID: 29867084). It is implicated in planar cell polarity and the Wnt canonical and non-canonical pathways (PMID: 24618420). Overexpression of PTK7 has been reported in a variety of tumors, such as cervical cancer, colon cancer, lung adenocarcinoma, acute myelogenous leukemia, and gastric cancer (PMID: 30944666).

## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS Only

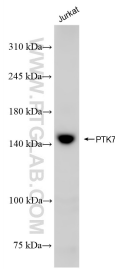
For technical support and original validation data for this product please contact:

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

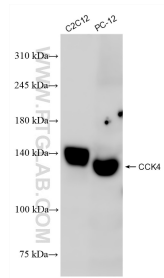
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

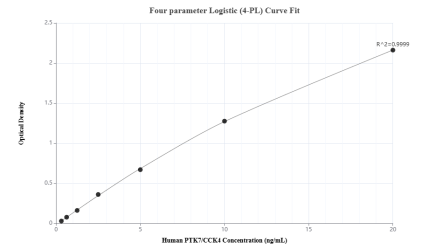
## Selected Validation Data



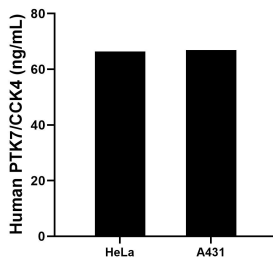
Various lysates were subjected to SDS PAGE followed by western blot with 85075-1-RR (PTK7 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85075-1-PBS in a different storage buffer formulation.



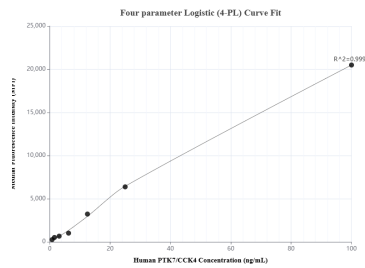
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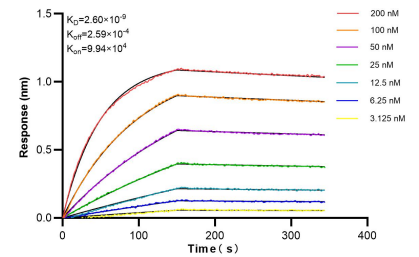
Sandwich ELISA standard curve of MP01800-3, Human PTK7/CCK4 Recombinant Matched Antibody Pair - PBS only. 85075-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag12026. 85075-1-PBS was HRP conjugated as the detection antibody. Range: 0.313-20 ng/mL



The mean PTK7/CCK4 concentration was determined to be 66.39 ng/mL in HeLa cell extract based on a 1.5 mg/mL extract load and 66.69 ng/mL in A431 cell extract based on a 1.5 mg/mL extract load.



Cytometric bead array standard curve of MP01800-1, PTK7/CCK4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85075-1-PBS. Detection antibody: 85075-2-PBS. Standard: Ag12026. Range: 0.781-100 ng/mL



Bi-layer interferometry (BLI) kinetic assays of 85075-1-RR against Human PTK7 were performed. The affinity constant is 2.60 nM.