

For Research Use Only

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

Catalog Number: 85075-1-PBS



## Basic Information

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

## Applications

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

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

## 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.  
**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:

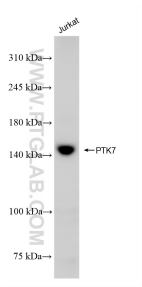
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

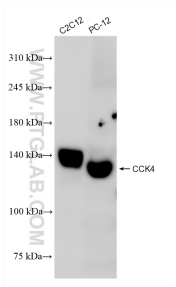
W: [ptgcn.com](http://ptgcn.com)

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

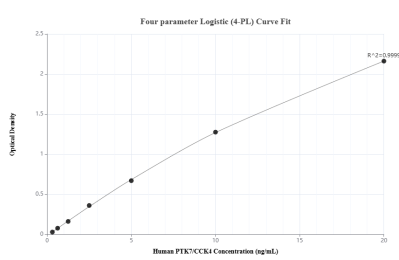
Selected Validation Data



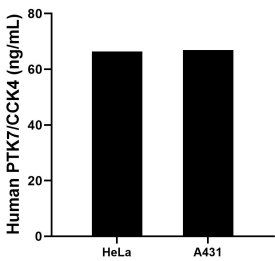
Various lysates were subjected to SDS PAGE followed by western blot with 85075-1-RR (PTK7 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85075-1-PBS in a different storage buffer formulation.



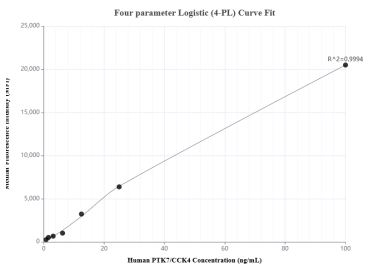
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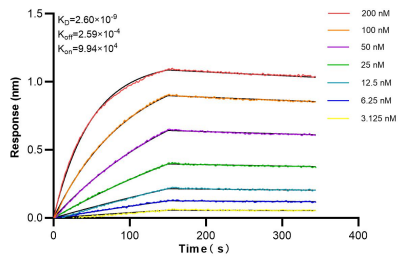
Sandwich ELISA standard curve of MP01800-3, Human PTK7/CCK4 Recombinant Matched Antibody Pair - PBS only. 85075-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag12026. 85075-1-PBS was HRP conjugated as the detection antibody. Range: 0.313-20 ng/mL



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.