

For Research Use Only

# MAP7D1 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83173-1-PBS



## Basic Information

<b>Catalog Number:</b> 83173-1-PBS	<b>GenBank Accession Number:</b> BC003083	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55700	<b>CloneNo.:</b> 230424A6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q3KQU3	
<b>Isotype:</b> IgG	<b>Full Name:</b> MAP7 domain containing 1	
<b>Immunogen Catalog Number:</b> AG14385	<b>Calculated MW:</b> 841 aa, 93 kDa	
	<b>Observed MW:</b> 120-130 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

83173-1-PBS targets MAP7D1 as part of a matched antibody pair:

MP00212-2: 83173-1-PBS capture and 83173-3-PBS detection (validated in Cytometric bead array)

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

MAP7D1 also known as RPRC1, PARCC1, belongs to the MAP7 family. The MAP7 (Microtubule Associated Protein 7) protein family, consisting of four members, MAP7, MAP7D1, and MAP7D2, MAP7D3, is the microtubule-associated protein involved in various cellular processes regulating microtubule dynamics, organization, and stability (PMID: 28980356). MAP7D1 exhibits the highest conservation with MAP7 and was recently identified as a phosphorylation substrate of DCLK1 in cortical neurons. MAP7D1 is required to maintain MT acetylation, which is enriched in stable MTs (PMID: 35470240). Consistent with the literature, the apparent molecular mass of MAP7D1 detected by Western blot was 120-130 kDa (PMID: 35470240, 37550720).

## Storage

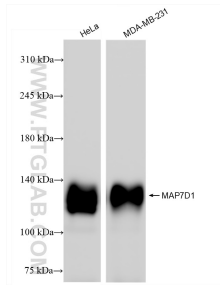
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

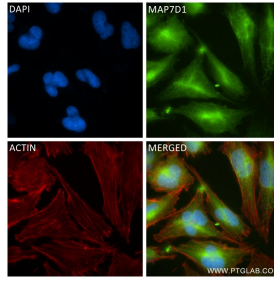
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

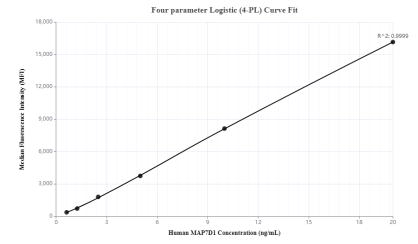
## Selected Validation Data



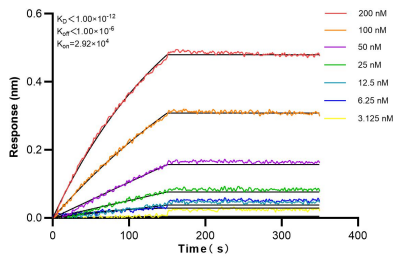
Various lysates were subjected to SDS PAGE followed by western blot with 83173-1-RR (MAP7D1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83173-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using MAP7D1 antibody (83173-1-RR, Clone: 230424A6) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83173-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00212-2, MAP7D1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83173-1-PBS. Detection antibody: 83173-3-PBS. Standard: Ag14385. Range: 0.625-20 ng/mL



Bi-layer interferometry (BLI) kinetic assays of 83173-1-RR against Human MAP7D1 were performed. The affinity constant is below 1 pM.