

For Research Use Only

# HMGCL Recombinant antibody, PBS Only (Detector)

Catalog Number: 84769-1-PBS



## Basic Information

<b>Catalog Number:</b> 84769-1-PBS	<b>GenBank Accession Number:</b> BC010570	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3155	<b>CloneNo.:</b> 242224G10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P35914	
<b>Isotype:</b> IgG	<b>Full Name:</b> 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase	
<b>Immunogen Catalog Number:</b> AG10426	<b>Calculated MW:</b> 325 aa, 34 kDa	
	<b>Observed MW:</b> 32 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

84769-1-PBS targets HMGCL as part of a matched antibody pair:

MP01555-2: 84769-2-PBS capture and 84769-1-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

HMGCL (3-hydroxy-3-methylglutaryl-CoA lyase) is a key enzyme in ketogenesis (ketone body formation). It is a ketogenic enzyme in the liver that catalyzes the formation of acetoacetate from HMG-CoA within the mitochondria. It also plays a prominent role in the catabolism of the amino acid leucine.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

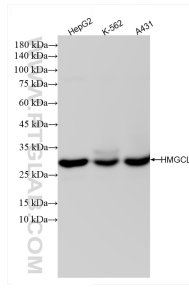
For technical support and original validation data for this product please contact:

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

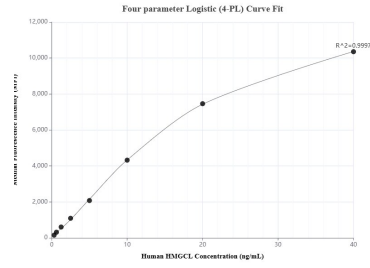
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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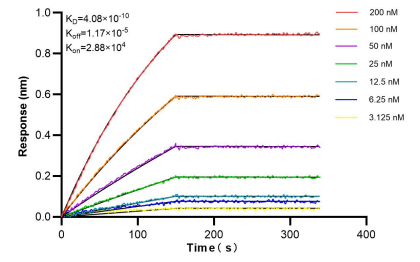
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84769-1-RR (HMGCL antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84769-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01555-2, HMGCL Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84769-2-PBS. Detection antibody: 84769-1-PBS. Standard: Ag10426. Range: 0.313-40 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 84769-1-RR against Human HMGCL were performed. The affinity constant is 0.408 nM.