

For Research Use Only

# PLOD1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 85662-6-PBS



## Basic Information

|                                                             |                                                                           |                                                       |
|-------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------|
| <b>Catalog Number:</b><br>85662-6-PBS                       | <b>GenBank Accession Number:</b><br>BC016657                              | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ug , Concentration: 1 mg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>5351                                             | <b>CloneNo.:</b><br>242403C11                         |
| <b>Source:</b><br>Rabbit                                    | <b>UNIPROT ID:</b><br>Q02809                                              |                                                       |
| <b>Isotype:</b><br>IgG                                      | <b>Full Name:</b><br>procollagen-lysine 1, 2-oxoglutarate 5-dioxygenase 1 |                                                       |
| <b>Immunogen Catalog Number:</b><br>AG31626                 | <b>Calculated MW:</b><br>727 aa, 84 kDa                                   |                                                       |
|                                                             | <b>Observed MW:</b><br>84-88 kDa                                          |                                                       |

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human

## Background Information

PLOD1, as known as procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1, is a member of the PLOD family(Uniprot, GeneID:5351). PLOD1 participates in catalyzing hydroxylysine residue, which is critical for the formation of covalent cross-link (PMID:30003082). PLOD1 plays an important role in the development and progression of tumors. Aberrantly expressed PLOD1 promotes cancer aggressiveness in glioma and bladder cancer, providing a potential prognostic biomarker and therapeutic target (PMID:31199049, PMID:34040895). PLOD1 has 2 isoforms produced by alternative splicing.

## Storage

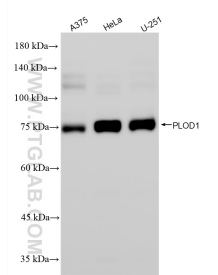
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

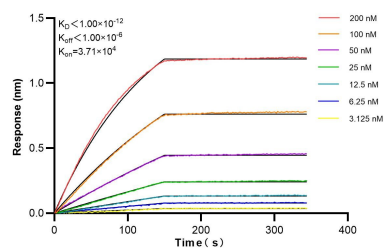
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85662-6-RR (PLOD1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85662-6-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 85662-6-RR against Human PLOD1 were performed. The affinity constant is below 1 pM.