

# TIMP1 Monoclonal Matched Antibody Pair, PBS Only

Catalog Number: MP50084-1

## Capture Antibody Information

**Catalog Number:**  
68691-1-PBS

**Host:**  
Mouse

**Isotype:**  
IgG1

**Purification Method:**  
Protein A purification

**Clone ID:**  
2B12A2

**Reactivity:**  
human

**GenBank:**  
BC000866

**Immunogen Catalog Number:**  
Eg0638

**Conjugate:**  
Unconjugated

**Full name:**  
TIMP metalloproteinase inhibitor 1

**Gene ID:**  
7076

**Affinity:**  
 $K_D = 1.61 \times 10^{-8}$   
 $K_{Off} = 5.73 \times 10^{-4}$   
 $K_{On} = 3.56 \times 10^4$

## Detection Antibody Information

**Catalog Number:**  
68691-2-PBS

**Host:**  
Mouse

**Isotype:**  
IgG1

**Purification Method:**  
Protein A purification

**Clone ID:**  
2D1E8

**Reactivity:**  
human

**GenBank:**  
BC000866

**Immunogen Catalog Number:**  
Eg0638

**Conjugate:**  
Unconjugated

**Full name:**  
TIMP metalloproteinase inhibitor 1

**Gene ID:**  
7076

**Affinity:**  
 $K_D = 6.19 \times 10^{-10}$   
 $K_{Off} = 2.13 \times 10^{-4}$   
 $K_{On} = 3.45 \times 10^5$

## Applications

**Tested Applications:**  
Sandwich ELISA

**Range:**  
31.25–2000 pg/mL (Sandwich ELISA)

**Recommended Dilutions:**  
It is recommended that this reagent should be titrated in each testing system to obtain optimal results.

## Product Information

MP50084-1 targets TIMP1 in immunoassays as a matched antibody pair. Validated in Sandwich ELISA.

Capture antibody: TIMP1 Monoclonal antibody, PBS Only (Capture) 68691-1-PBS (2B12A2). 100 µg. Concentration 1 mg/mL.

Detection antibody: TIMP1 Monoclonal antibody, PBS Only (Detector) 68691-2-PBS (2D1E8). 100 µg. Concentration 1 mg/mL.

Unconjugated mouse monoclonal antibody pair in PBS only storage buffer at a concentration of 1 mg/mL, ready for conjugation.

Matched antibody pairs are designed for use in a variety of assays and platforms that require matched antibody pairs.

Antibody use should be optimized for each application and assay.

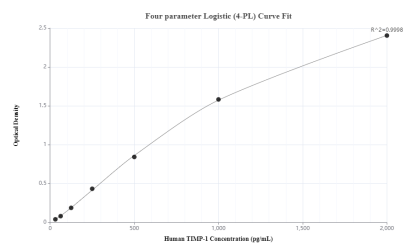
## Storage

**Storage:**  
Store at -80°C.

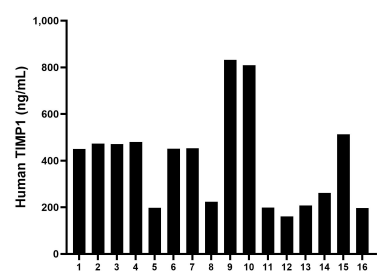
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

**Storage buffer:**  
PBS only

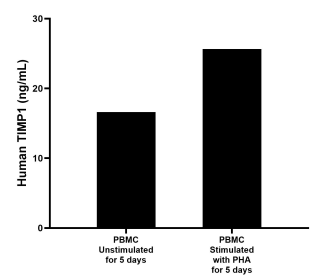
## Selected Validation Data



Sandwich ELISA standard curve of MP50084-1, TIMP1 Monoclonal Matched Antibody Pair - PBS only. 68691-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg0638. 68691-2-PBS was HRP conjugated as the detection antibody. Range: 31.25-2000 pg/mL



Serum of sixteen individual healthy human donors was measured. The human TIMP1 concentration of detected samples was determined to be 398.65 ng/mL with a range of 160.64 - 832.22 ng/mL



Human peripheral blood mononuclear cells (PBMC) were cultured unstimulated or stimulated with 10  $\mu$ g/mL PHA for 5 days. The mean TIMP1 concentration was determined to be 16.63 ng/mL in unstimulated PBMC supernatant, 25.66 ng/mL in PHA stimulated PBMC supernatant.