

For Research Use Only

# Mouse Tissue Factor Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 83887-4-PBS



## Basic Information

<b>Catalog Number:</b> 83887-4-PBS	<b>GenBank Accession Number:</b> GeneID (NCBI): 14066	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>UNIPROT ID:</b> P20352	<b>CloneNo.:</b> 240875H3
<b>Source:</b> Rabbit	<b>Full Name:</b> coagulation factor III	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 33kDa	
<b>Immunogen Catalog Number:</b> EG1102	<b>Observed MW:</b> 48-53 kDa	

## Applications

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

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

## Product Information

83887-4-PBS targets Tissue Factor as part of a matched antibody pair:

MP00859-1: 83887-1-PBS capture and 83887-4-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

MP00859-2: 83887-3-PBS capture and 83887-4-PBS detection (validated in Cytometric bead array)

MP00859-3: 83887-4-PBS capture and 83887-2-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

Normal blood coagulation is a complex process, involving a cascade of activation of different plasma proteins, ultimately resulting in the formation of a clot, called fibrin. Tissue Factor (TF), also named Coagulation factor III or F3, is the primary initiator of the blood coagulation cascade and plays an essential role in hemostasis (PMID: 26877187; PMID: 33796108). This antibody is specific for mouse Tissue Factor.

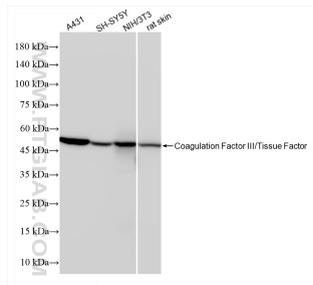
## Storage

**Storage:**  
Store at -80°C.  
**Storage Buffer:**  
PBS only, pH7.3

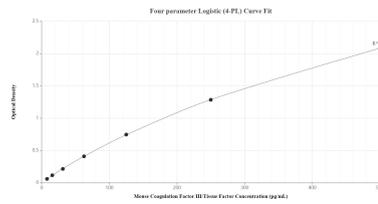
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

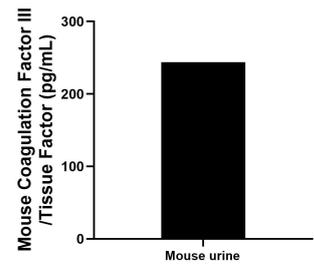
## Selected Validation Data



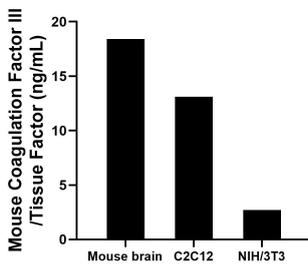
Various lysates were subjected to SDS PAGE followed by western blot with 83887-4-RR (Coagulation Factor III/Tissue Factor antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83887-4-PBS in a different storage buffer formulation.



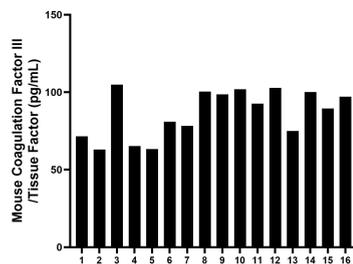
Sandwich ELISA standard curve of MP00859-1, Mouse Tissue Factor Recombinant Matched Antibody Pair - PBS only. 83887-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg1102. 83887-4-PBS was HRP conjugated as the detection antibody. Range: 7.8-500 pg/mL



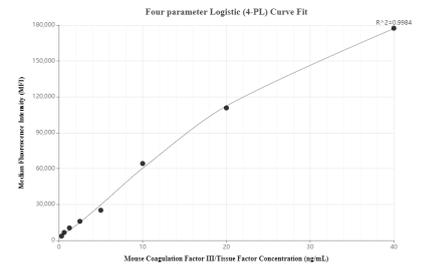
Urine of mice was measured. The Tissue Factor concentration of detected samples was determined to be 244.1 pg/mL



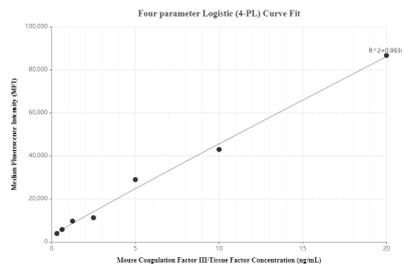
The mean Tissue Factor concentration was determined to be 18.4 ng/mL in mouse brain tissue extract based on a 6.0 mg/mL extract load, 13.1 ng/mL in C2C12 cell extract based on a 3.6 mg/mL extract load and 2.7 ng/mL in NIH/3T3 cell extract based on a 10.6 mg/mL extract load.



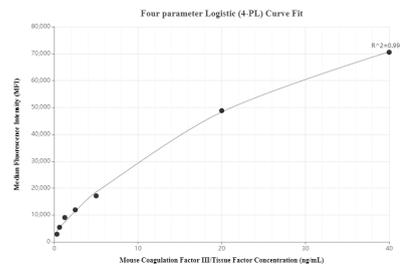
Serum of sixteen mice was measured. The Tissue Factor concentration of detected samples was determined to be 86.6 pg/mL with a range of 63.0-105.0 pg/mL



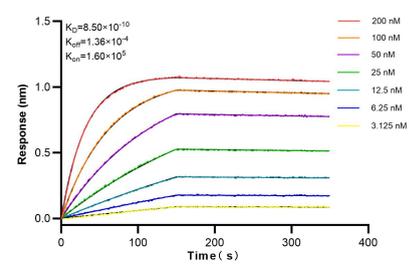
Cytometric bead array standard curve of MP00859-1, MOUSE Tissue Factor Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83887-1-PBS. Detection antibody: 83887-4-PBS. Standard: Eg1102. Range: 0.313-40 ng/mL



Cytometric bead array standard curve of MP00859-2, MOUSE Tissue Factor Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83887-3-PBS. Detection antibody: 83887-4-PBS. Standard: Eg1102. Range: 0.313-20 ng/mL



Cytometric bead array standard curve of MP00859-3, MOUSE Tissue Factor Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83887-4-PBS. Detection antibody: 83887-2-PBS. Standard: Eg1102. Range: 0.313-40 ng/mL



Bi-layer interferometry (BLI) kinetic assays of 83887-4-RR against Mouse Tissue Factor were performed. The affinity constant is 0.85 nM.