

For Research Use Only

# Alpha-1-microglobulin Recombinant antibody, PBS Only

Catalog Number: 83678-3-PBS



## Basic Information

<b>Catalog Number:</b> 83678-3-PBS	<b>GenBank Accession Number:</b> NM_001633.4	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 259	<b>CloneNo.:</b> 240751G7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P02760	
<b>Isotype:</b> IgG	<b>Full Name:</b> alpha-1-microglobulin/bikunin precursor	
	<b>Calculated MW:</b> 39kDa	
	<b>Observed MW:</b> 30 kDa	

## Applications

**Tested Applications:**  
WB, FC (Intra), ELISA

**Species Specificity:**  
human

## Background Information

Alpha 1 microglobulin, also known as HI30, is a 27-30 kDa glycoprotein, present in various body fluids. It belongs to the lipocalin superfamily of hydrophobic ligand-binding proteins forming an internal ligand-binding pocket. The protein acts as a mediator of bacterial adhesion to polymer surfaces and is involved in inhibiting renal lithogenesis.

## Storage

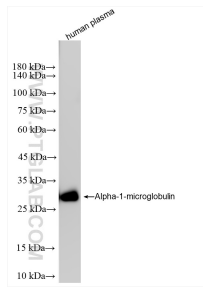
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

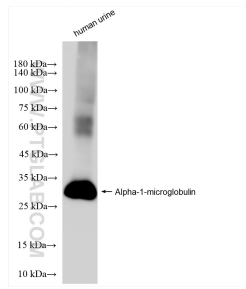
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com      W: ptglab.com

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

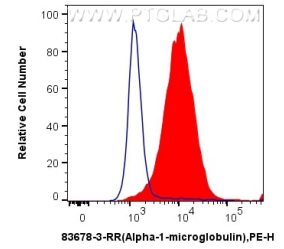
## Selected Validation Data



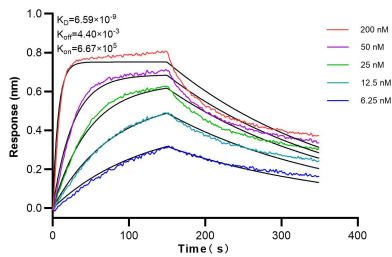
human plasma were subjected to SDS PAGE followed by western blot with 83678-3-RR (Alpha-1-microglobulin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83678-3-PBS in a different storage buffer formulation.



human urine sample were subjected to SDS PAGE followed by western blot with 83678-3-RR (Alpha-1-microglobulin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83678-3-PBS in a different storage buffer formulation.



$1 \times 10^6$  MCF-7 cells were intracellularly stained with 0.25  $\mu$ g Alpha 1 microglobulin Recombinant antibody (83678-3-RR, Clone:240751G7) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83678-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 83678-3-RR against Human Alpha 1 microglobulin were performed. The affinity constant is 6.59 nM.