

For Research Use Only

# Alpha-1-microglobulin Recombinant monoclonal antibody

Catalog Number: 83678-3-RR



## Basic Information

Catalog Number:

83678-3-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG1127

GenBank Accession Number:

NM\_001633.4

GeneID (NCBI):

259

UNIPROT ID:

P02760

Full Name:

alpha-1-microglobulin/bikunin precursor

Calculated MW:

39kDa

Observed MW:

30 kDa

Purification Method:

Protein A purification

CloneNo.:

240751G7

Recommended Dilutions:

WB: 1:5000-1:50000

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : human plasma, human urine sample

FC (Intra) : MCF-7 cells, HepG2 cells

## 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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

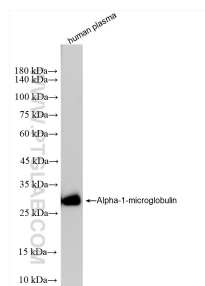
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

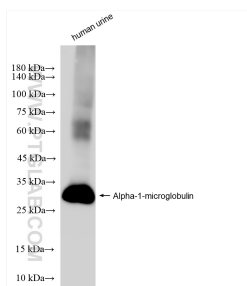
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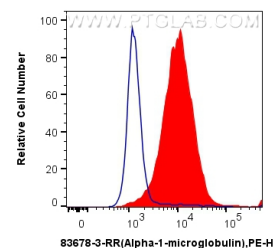
## Selected Validation Data



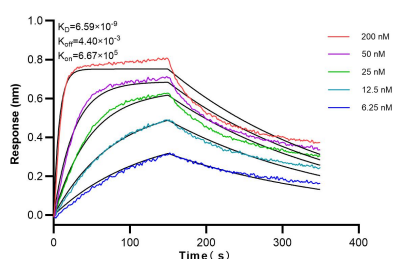
human plasma were subjected to SDS PAGE followed by western blot with 83678-3-RR (Alpha-1-microglobulin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.25 ug Alpha 1 microglobulin Recombinant antibody (83678-3-RR, Clone:240751G7) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



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