

For Research Use Only

Alpha-1-microglobulin Monoclonal antibody

Catalog Number: 61038-2-Ig



Basic Information

Catalog Number: 61038-2-Ig	GenBank Accession Number: BC041593	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 259	CloneNo.: 2A9H5
Source: Mouse	UNIPROT ID: P02760	Recommended Dilutions: WB: 1:5000-1:20000 IF/ICC: 1:817-1:3268
Isotype: IgG2a	Full Name: alpha-1-microglobulin/bikunin precursor	
Immunogen Catalog Number: AG37772	Calculated MW: 352 aa, 39 kDa	
	Observed MW: 30-39 kDa	

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
human

Positive Controls:

WB : HepG2 cells, PNGF treated HepG2 cells, human urine, and PNGF-treated human urine.

IF/ICC : HepG2 cells,

Background Information

Alpha-1-microglobulin (A1M) is also named as Protein AMBP, Bikunin, Trypstatin and Inter-alpha-trypsin inhibitor light chain (ITI-LC). A1M belongs to the lipocalin protein family, a group of structural proteins with a similar one-domain fold that are found in bacteria, plants and animals (PMID: 2580349). A1M is recognized as a physiological antioxidant with powerful cell- and tissue-protective properties (PMID: 11877257). Whereas A1M is a heme and radical scavenger, and a reductase, bikunin is a structural component of extracellular matrix and has protease inhibitor and anti-inflammatory properties (PMID: 27988357). In humans, the majority of A1M is synthesized in the liver, but smaller quantities are also expressed in most other cells in the body. In the blood, equal quantities of two forms of A1M can be found: a free monomeric form and a covalent high-molecular weight complex bound to immunoglobulin A, albumin and prothrombin (PMID: 6196366, PMID: 9183005). Endogenous A1M has also been described to be localized ubiquitously in the dermal and epidermal layers of skin, and in syncytiotrophoblasts, monocytes/macrophages, vascular endothelium and extracellular matrix of placental tissue and extracellular matrix (PMID: 22096585, PMID: 21356557). 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

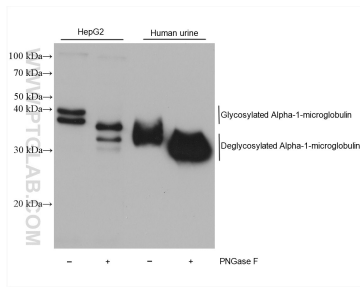
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

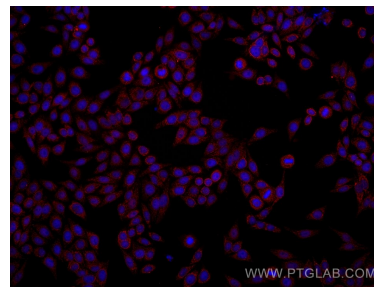
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 61038-2-Ig (Alpha-1-microglobulin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Alpha-1-microglobulin antibody (61038-2-Ig) at dilution of 1:1634 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).