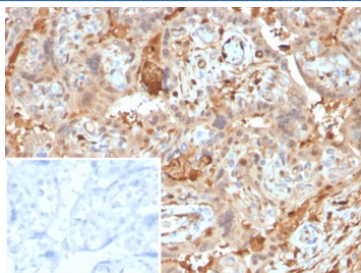


## Alpha 1 Microglobulin Antibody / AMBP / Bikunin [clone AMBP/4536] (V5301)

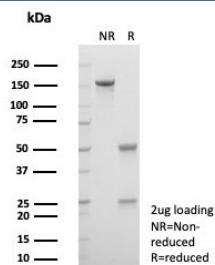
Catalog No.	Formulation	Size
V5301-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5301-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5301SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

### Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	AMBP/4536
Purity	Protein A/G affinity
UniProt	P02760
Localization	Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Alpha 1 Microglobulin antibody is available for research use only.



IHC staining of FFPE human placental tissue with Alpha 1 Microglobulin antibody (clone AMBP/4536). Inset: PBS used in place of primary Ab (secondary Ab negative control).  
 HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Alpha 1 Microglobulin antibody (clone AMBP/4536) as confirmation of integrity and purity.

## Description

The AMBP (Alpha-1-Microglobulin/Bikunin precursor) gene encodes a protein precursor, known as AMBP, that is cleaved to produce two distinct proteins, designated Alpha-1-Microglobulin and Bikunin. Alpha-1-Microglobulin, also known as protein HC, is a member of the lipocalin superfamily and is secreted mainly in plasma, urine and cerebrospinal fluid. Thought to have reductase/dehydrogenase activity, Alpha-1-Microglobulin exhibits immunosuppressive properties, such as cytokine secretion and inhibition of antigen-induced lymphocyte cell proliferation, and may be involved in the reduction of biological pro-oxidants. The second protein cleavage product, designated Bikunin and also known as inter-Alpha-trypsin inhibitor light chain, ITI-LC or urinary trypsin inhibitor, is a widely expressed protein that is stored in the granules of human connective tissue mast cells. One of many proteins in the Kunitz-type protease inhibitor family, Bikunin prevents autodigestion by exocrine enzymes, such as trypsinogen and chymo-trypsinogen, and plays a role in the antiinflammatory/antiproteinase immune response. Unlike Alpha-1-Microglobulin, Bikunin is implicated in the pathogenesis of a number of renal diseases, such as urolithiasis.

## Application Notes

Optimal dilution of the Alpha 1 Microglobulin antibody should be determined by the researcher.

## Immunogen

A recombinant partial protein sequence (within amino acids 200-353) from the human protein was used as the immunogen for the Alpha 1 Microglobulin antibody.

## Storage

Aliquot the Alpha 1 Microglobulin antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.