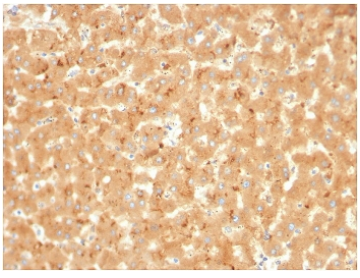
A2M Antibody / Alpha-2-Macroglobulin [clone A2M/3623] (V8548)

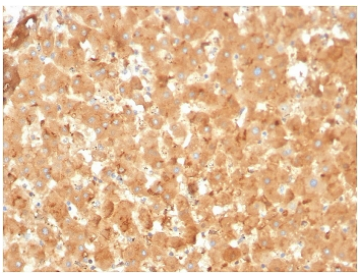
Catalog No.	Formulation	Size
V8548-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8548-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8548SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	A2M/3623
Purity	Protein G affinity chromatography
UniProt	P01023
Localization	Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This A2M antibody is available for research use only.



IHC staining of FFPE human liver with A2M antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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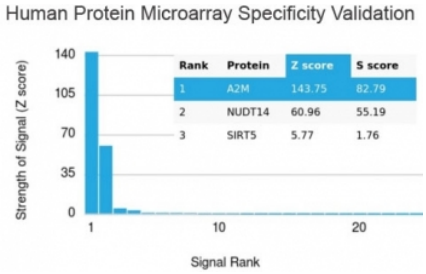
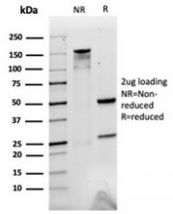


Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using A2M antibody. These results demonstrate the foremost specificity of the A2M/3623 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free A2M antibody as confirmation of integrity and purity.

Description

Alpha-2-Macroglobulin (A2M) is a homotetrameric serum protein consisting of four identical subunits that form dimers through disulfide bonds. Initially, it was characterized as a pan-proteinase inhibitor that was able to bait proteinases into cleaving specific peptide sequences on A2M. This interaction induces a conformational change, thus enabling it to trap the proteinase and further inhibit its activity. Subsequently, A2M has been shown to function as a carrier protein and regulator of cytokines during inflammation.

Application Notes

Optimal dilution of the A2M antibody should be determined by the researcher.

Immunogen

A portion of amino acids 604-748 from the human protein was used as the immunogen for the A2M antibody.

Storage

Store the A2M antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).