

Product Datasheet

A2M Antibody / Alpha-2-Macroglobulin (orb699646)

Catalog Number	orb699646
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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P
Immunogen	A portion of amino acids 604-748 from the human protein was used as the immunogen for the A2M antibody.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the A2M antibody should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	A2M/3623

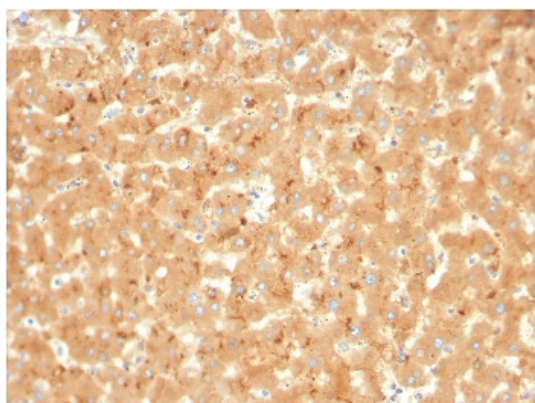
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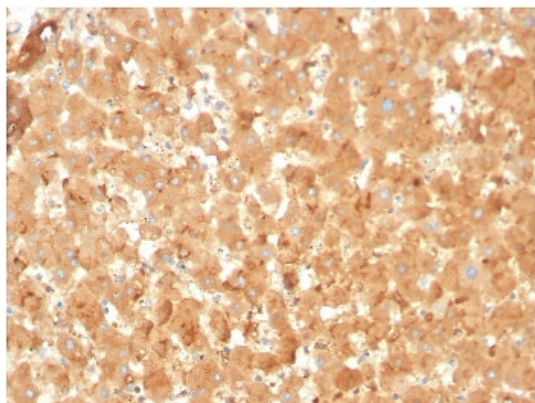
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Antibody Type	Primary Antibody
Uniprot ID	P01023
Hazard Information	This A2M antibody is available for research use only.
Dilution Range	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human liver with A2M antibody. HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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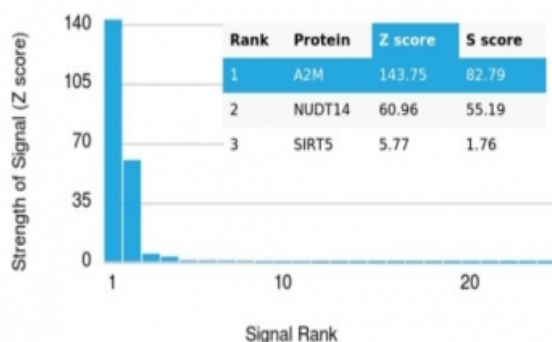
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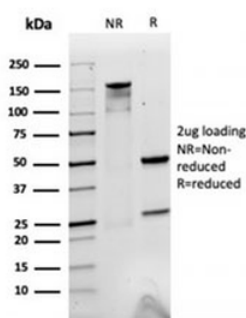
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Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 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.

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