Anti-alpha 2 Macroglobulin Antibody [A2M/3622] (A277584)

Specifications:

Name:	Anti-alpha 2 Macroglobulin Antibody [A2M/3622]
Description:	Mouse monoclonal [A2M/3622] antibody to alpha 2 Macroglobulin.
Specificity:	Î±-2-Macroglobulin (Î±-2M) is a homotetrameric serum protein consisting of four identical subunits that form dimers through disulfide bonds. Initially, Î±-2M was characterized as a pan-proteinase inhibitor that was able to bait proteinases into cleaving specific peptide sequences on Î±-2M. This interaction induces a conformational change in Î±-2M, thus enabling it to trap the proteinase and further inhibit its activity. Subsequently, Î±-2M has been shown to function as a carrier protein and regulator of cytokines during inflammation. Circulating transforming growth factor Î² (TGFÎ²) in serum is primarily bound to Î±-2M, which renders TGFÎ² inactive. Î±-2M also binds to IL-6 and, thereby, increases the concentration of IL-6 near lymphocytes, hepatocytes and stem cells involved in mediating the inflammatory cascade. Mutations and deletions in the gene encoding Î±-2M are associated with an increased incidence of Alzheimer s disease (AD), which is consistent with the role of Î±-2M in mediating the clearance and degradation of A Î², the major component of Î²-Amyloid deposits accumulated during AD.
Applications:	IHC-P
Recommended Dilutions:	IHC-P: 1-2 µg/ml
Reactivity:	Human
Immunogen:	Recombinant fragment, around amino acids 604-748, of human alpha 2 Macroglobulin. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	A2M/3622
Isotype:	IgG2b
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.

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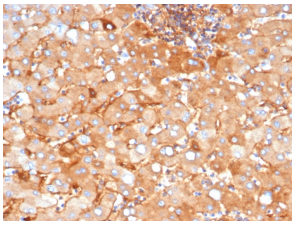
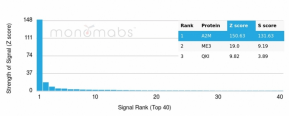
Specifications continued:

Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-alpha 2 Macroglobulin Antibody [A2M/3622] - BSA and Azide free (A278172).
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

Images:



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human liver tissue using Anti-alpha 2 Macroglobulin Antibody [A2M/3622].



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-alpha 2 Macroglobulin Antibody [A2M/3622]. Z-Score and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target; a MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.