

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse α_2 -Macroglobulin in direct ELISAs and Western blots. In direct ELISA, less than 2% cross-reactivity with human α_2 -Macroglobulin, recombinant rat (rr) α_2 -Macroglobulin, and rr β_2 -
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse serum-derived α_2 -Macroglobulin
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

α_2 -Macroglobulin (alpha 2 macroglobulin; also A2M and MAM) is a 185 kDa member of the protease inhibitor I39 family of proteins. It is secreted by the liver, circulates at a constant level in the blood, binds multiple growth factors, inhibits a wide variety of proteinases via steric trapping, is cleared by cell surface receptors and likely exists as a tetramer. Mature mouse A2M is 1471 amino acids (aa) in length. It is cleaved between Arg1239 and Asp1240 to generate two subunits, one that is 165 kDa in size and 1215 aa in length and a second that is 35 kDa in size and 256 aa in length. The protease inhibitor region (aa 686-744) is on the large subunit, while the receptor binding segment (aa 1395-1482) is on the smaller subunit. A2M has a counterpart gene termed A2M-P that is associated with pregnancy. The A2M-P molecule shares 56% aa identity with mouse A2M. Notably, mouse A2M-P is closer in aa sequence to human A2M (72%) and rat A2M (91%) than mouse A2M is to human A2M (59%) and rat A2M (56%).

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.