Mouse α_2-Macroglobulin Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5798G
100 µg

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 rrβ_2-
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse serum-derived α_2-Macroglobulin
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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%).

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475