

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human α_2 -Macroglobulin in direct ELISAs and Western blots. In direct ELISAs, this antibody does not cross-react with rhC5a or rmC5a.
Source	Monoclonal Mouse IgG ₁ Clone # 257316
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human plasma-derived α_2 -Macroglobulin
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

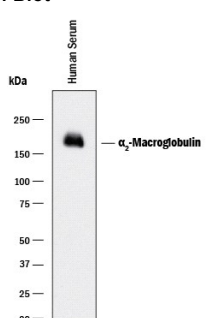
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	2 μ g/mL	See Below
Simple Western	10 μ g/mL	See Below

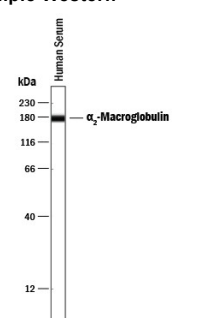
DATA

Western Blot




Detection of Human α_2 -Macroglobulin by Western Blot. Western blot shows human serum. PVDF membrane was probed with 2 μ g/mL of Mouse Anti-Human α_2 -Macroglobulin Monoclonal Antibody (Catalog # MAB1938) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for α_2 -Macroglobulin at approximately 180 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human α_2 -Macroglobulin by Simple Western™. Simple Western lane view shows human serum, loaded at 0.2 mg/mL. A specific band was detected for α_2 -Macroglobulin at approximately 178 kDa (as indicated) using 10 μ g/mL of Mouse Anti-Human α_2 -Macroglobulin Monoclonal Antibody (Catalog # MAB1938). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Alpha 2-macroglobulin (A2M) is a general and irreversible protease inhibitor implicated in many processes. It is able to inhibit all four classes of proteases by a unique trapping mechanism.