Human α_2-Macroglobulin Antibody

Monoclonal Mouse IgG_1 Clone # 257316

Catalog Number: MAB1938

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 μm 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 μm filtered solution in PBS.

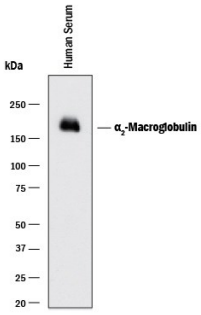
APPLICATIONS

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 µg/mL	See Below
Simple Western	10 µg/mL	See Below

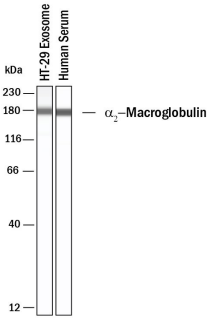
DATA

Western Blot



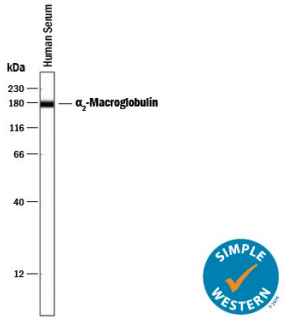
Detection of Human α_2-Macroglobulin by Western Blot. Western blot shows human serum. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human α_2-Macroglobulin Monoclonal Antibody (Catalog # MAB1938) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF018). A specific 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 lysates of Exosome Standards (HT-29) (Catalog # NBP3-11685) and human serum, loaded at 0.5 mg/ml and 1:10 respectively. A specific band was detected for α_2-Macroglobulin at approximately 178 kDa (as indicated) using 10 µg/ml of Mouse Anti-Human α_2-Macroglobulin Monoclonal Antibody (Catalog # MAB1938) followed by HRP-conjugated Goat Anti-Mouse Secondary Antibody (Catalog # 042-205). This experiment was conducted under reducing conditions and using the 12-230kDa separation system.

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 µg/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.

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Catalog Number: MAB1938

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 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.

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