

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human $\alpha_2$ -Macroglobulin in direct ELISAs and Western blots. In direct ELISAs, this antibody does not cross-react with rhC5a or rmC5a.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 257316
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human plasma-derived $\alpha_2$ -Macroglobulin
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 $\mu$ m filtered solution in PBS.

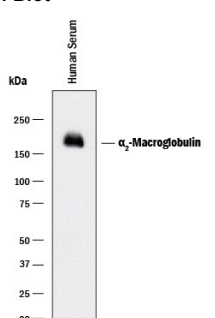
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	2 $\mu$ g/mL	See Below
<b>Simple Western</b>	10 $\mu$ g/mL	See Below

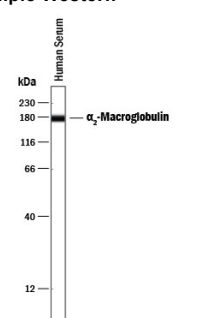
## DATA

**Western Blot**




**Detection of Human  $\alpha_2$ -Macroglobulin by Western Blot.** Western blot shows human serum. PVDF membrane was probed with 2  $\mu$ g/mL of Mouse Anti-Human  $\alpha_2$ -Macroglobulin Monoclonal Antibody (Catalog # MAB1938) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for  $\alpha_2$ -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  $\alpha_2$ -Macroglobulin by Simple Western™.** Simple Western lane view shows human serum, loaded at 0.2 mg/mL. A specific band was detected for  $\alpha_2$ -Macroglobulin at approximately 178 kDa (as indicated) using 10  $\mu$ g/mL of Mouse Anti-Human  $\alpha_2$ -Macroglobulin Monoclonal Antibody (Catalog # MAB1938). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.