Human Serpin G1/C1 Inhibitor Antibody

Monoclonal Mouse IgG_1 Clone # 350507

Catalog Number: MAB2488

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Serpin G1/C1 Inhibitor in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human Serpin A1, A3, A4, A5, C1, D1, E2, or F1 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 350507
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human plasma-derived Serpin G1/C1 Inhibitor
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.

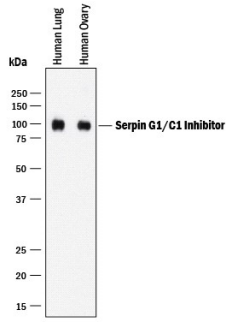
APPLICATIONS

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	1 µg/mL	See Below
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Human Serpin G1/C1 Inhibitor (Catalog # 2488-PI), see our available Western blot detection antibodies

DATA

Western Blot



Detection of Serpin G1/C1 Inhibitor by Western Blot. Western blot shows lysates of human lung tissue and human ovary tissue. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human Serpin G1/C1 Inhibitor Monoclonal Antibody (Catalog # MAB2488) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Serpin G1/C1 Inhibitor at approximately 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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	**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

As a member of the serpin superfamily of serine protease inhibitors, Serpin G1/C1 inhibitor is the physiological inhibitor of activated C1r and C1s, two serine proteases involved in the classical complement pathway. In addition, it inhibits plasma kallikrein and coagulation factor XIIa, two serine proteases involved in the processing of kininogen to release bradykinin. Therefore, it plays an important role in regulating activation of both the complement and contact systems (1). Serpin G1 deficiency results in hereditary angioedema, which is characterized by recurrent episodes of localized angioedema of the skin, gastrointestinal mucosa or upper respiratory mucosa (2). The deduced amino acid sequence of human Serpin G1 precursor consists of 500 residues with a signal peptide. The mature protein of 478 amino acid residues is heavily glycosylated (1).

References:

1. Davis, A.E. III *et al.* (1993) Methods Enzymol. **223**:97.
2. Davis, A.E. III (2004) Drug News Perspect. **17**:439.

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