

Human Serpin B2 Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF8550

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Serpin B2 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant human (rh Serpin B6, rhSerpin B8, and rhSerpin B9 is observed.		
Source	Polyclonal Rabbit IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human Serpin B2 Glu2-Pro415 (Asn66-Gln98 del) Accession # P05120		
Formulation	Supplied as a solution in PBS containing BSA, Glycerol and Sodium Azide. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

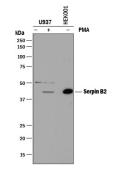
APPLICATIONS

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.

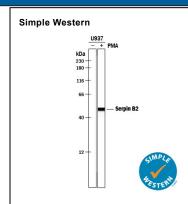
	Recommended Concentration	Sample
Western Blot	1:1000 dilution	See Below
Simple Western	1:100 dilution	See Below
Knockout Validated	Seprin B2 is specifically detected in K562 human chronic myelogenous leukemia parental cell line but is not detectable in Seprin B2 knockout K562 cell line.	

DATA

Western Blot

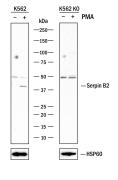


Detection of Human Serpin B2 by Western Blot. Western blot shows lysates of U937 human histiocytic lymphoma cell line and HEK001 human epidermal keratinocyte cell line untreated (-) or treated (+) with PMA. PVDF membrane was probed with 1:1000 dilution of Rabbit Anti-Human Serpin B2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8550) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Serpin B2 at approximately 47 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human Serpin B2 by Simple WesternTM. Simple Western lane view shows lysates of U937 human histiocytic lymphoma cell line untreated (-) or treated (+) with PMA, loaded at 0.2 mg/mL. A specific band was detected for Serpin B2 at approximately 49 kDa (as indicated) using 1:100 dilution of Rabbit Anti-Human Serpin B2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8550). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Knockout Validated



Western Blot Shows Human Serpin B2 Specificity by Using Knockout Cell Line. Western blot shows lysates of K562 human chronic myelogenous leukemia parental cell line and Seprin B2 knockout K562 cell line (KO) untreated (-) or treated (+) with 300nM PMA for overnight. PVDF membrane was probed with 2 µg/mL of Rabbit Anti-Human Serpin B2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8550) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Serpin B2 at approximately 40 kDa (as indicated) in the parental K562 cell line, but is not detectable in the knockout K562 cell line. HSP60 (Catalog # MAB1800) is shown as a loading control This experiment was conducted under reducing conditions and using Immunoblot

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PREPARATION AND STORAGE

Shipping

The product is shipped with polar packs. 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 opening.
- 6 months, -20 to -70 °C under sterile conditions after opening.

BACKGROUNI

Serpin B2 is the gene that encodes plasminogen activator inhibitor 2 (PAI-2), a glycoprotein of 415 amino acids in length. The human serpin superfamily consists of at least 35 members that target not only serine proteases, but also selected cysteine proteases and non-protease proteins. Serpins bind the protease active site resulting in a major conformational rearrangement that traps the enzyme in a covalent acyl-enzyme intermediate. As protease inhibitors, serpins have an array of functions including regulating blood clotting, the complement pathway, extracellular matrix remodeling, and cell motility. They are also involved in activities that extend beyond their ability to inhibit proteases.

PRODUCT SPECIFIC NOTICES

* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.

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