

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Serpin B8/Proteinase Inhibitor 8 in direct ELISAs and Western blots. In Western blots, approximately 10% cross-reactivity with recombinant human (rh) Serpin B8, rhSerpin B9, and rhSerpin B6 is observed and less than 1% cross-reactivity with rhSerpin A1, D1, E2, I2, recombinant mouse Serpin A1, C1, E1, F1, and F2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse Serpin B8/Proteinase Inhibitor 8 Asp2-Pro374 Accession # O08800
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	0.1 µg/mL	Recombinant Mouse Serpin B8/Proteinase Inhibitor 8
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Mouse Serpin B8/Proteinase Inhibitor 8, see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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. <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

Serpin B8, also known as Proteinase Inhibitor 8 (PI8) and cytoplasmic antiproteinase 2 (CAP2), is a member of the Serpin superfamily of the serine protease inhibitors (1). It inhibits furin, a ubiquitously expressed convertase that processes many pro-proteins (2). Distribution of Serpin B8 alters during kidney regeneration, indicating that it plays a role in inflammation or tissue repair (3).

References:

1. Silverman, G.A. *et al.* (2001) *J. Biol. Chem.* **276**:33293.
2. Dahlen, J.R. *et al.* (1998) *J. Biol. Chem.* **273**:1851.
3. Gillard, A. (2006) *Am. J. Nephrol.* **26**:34. .