

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Serpin A4/Kallistatin in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Serpin A1, A3, A5, C1, F2, or recombinant mouse Serpin D1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 209930
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Serpin A4/Kallistatin Leu22-Pro427 Accession # AAA59454
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	Recombinant Human Serpin A4/Kallistatin (Catalog # 1669-PI)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Serpin A4/Kallistatin (Catalog # 1669-PI), see our available Western blot detection antibodies

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. <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 A4, also called Kallistatin, Kallikrein inhibitor and protease inhibitor 4, is a member of the Serpin superfamily of the serine protease inhibitors (1). Known also as kallistatin or proteinase inhibitor 4, Serpin A4 has been shown to function as a specific inhibitor of tissue kallikrein and as an inhibitor of angiogenesis and tumor growth (2, 3).

References:

1. Silverman, G.A. *et al.* (2001) *J. Biol. Chem.* **276**:33293.
2. Chen, V.C. *et al.* (2000) *J. Biol. Chem.* **275**:40371.
3. Miao, R.Q. *et al.* (2002) *Blood* **100**:3245.