



Anti-human Serpin A9/Centerin Antibody

ORDERING INFORMATION

Catalog Number: AF5429

Lot Number: CCGA01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human Serpin A9

Immunogen: NS0-derived rhSerpin A9

Ig Type: sheep IgG

Applications: Immunohistochemistry
Immunoprecipitation
Direct ELISA

Background

Serpin A9 (Serine proteinase inhibitor-clade A #9; also GCET1, Centerin and Serpin A11) is a 46 kDa, secreted member of the α 1-antitrypsin (clade A)-subfamily, serpin superfamily of protease inhibitors. It is only produced by normal and lymphoma germinal center B cells. Its function is unknown, but it presumably acts as an inhibitor of a trypsin-like protease. Mature human Serpin A9 is presumably 394 amino acids (aa) in length. It contains one Serpin motif (aa 405 - 415). There are multiple splice variants associated with Serpin A9. There are alternate start sites at Met19, Met99 and Met150. A fourth isoform shows a two aa substitution for aa 369 - 435, while a fifth isoform shares this same substitution coupled with a 39 aa substitution for aa 1 - 75. A sixth variant shows a deletion of aa 91 - 190. Mature human Serpin A9 shares 67% aa identity with mouse Serpin A9.

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant human Serpin A9 (rhSerpin A9; aa 24 - 417; Accession # AAQ89063). Human Serpin A9 specific IgG was purified by human Serpin A9 affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for its ability to recognize human Serpin A9 in the applications listed below.

Applications

Immunohistochemistry - This antibody will detect human Serpin A9 in tissues. The working dilution is 3 - 10 µg/mL. Antigen retrieval is recommended.

Immunoprecipitation - This antibody has been used to immunoprecipitate rhSerpin A9 from conditioned media of transfected NS0 cells.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human Serpin A9. The detection limit for rhSerpin A9 is approximately 0.5 ng/well. In this format, this antibody shows less than 5% cross-reactivity with rhSerpin A5, rhSerpin A4 and rmSerpin A3N.

Optimal dilutions should be determined by each laboratory for each application.

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