

AP31533SU-N**Polyclonal Antibody to Human Lambda Light Chain (free) - Serum**

Quantity:	1 ml
Concentration:	25 mg/ml
Host:	Goat
Immunogen:	A pool of purified Bence Jones lambda proteins isolated from human urine. Freund's complete adjuvant is used in the first step of the immunization procedure.
Format:	State: Lyophilised hyperimmune Ig fraction Buffer System: PBS, pH 7.2 No preservative added, as it may interfere with the antibody activity. No foreign proteins added. Reconstitution: Restore with 1 ml sterile distilled water
Applications:	To detect and identify free light chain type and Bence Jones protein in serum or urine by immunoelectrophoresis or double radial immunodiffusion. It is of great importance as an aid in the diagnosis of B cell malignancies such as multiple myeloma and non-Hodgkin lymphoma, and in monitoring their therapy. In immunoelectrophoresis use 1.2 µl of sample in a well with a diameter of 1 mm against 60 µl antiserum in a 20 mm long channel. Electrophoresis for 1 hour, 20 mA. The detection limit of this technique in serum is about 25 mg/l; in the case 100 times concentrated urine is used the detection limit can be brought down to 0.5 mg/l. The fact that in about 40% of the case the Bence Jones protein was only detectable in either serum or urine emphasizes the necessity to investigate both fluids. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The reactivity of the antiserum is directed to the hidden determinants of Ig lambda light chain. In immunoelectrophoresis this antiserum is only reacting with Bence Jones proteins as well as free light chains of the lambda type. No reaction is obtained with intact polyclonal or monoclonal immunoglobulins. Cross-reactivity: Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins and their fragments, since Ig of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail. Species: Human. Other species not tested.
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one week or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.