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| Description | Tetramethylrhodamine isothiocyanate-conjugated IgG fraction of polyclonal sheep antiserum to free and bound mouse Ig lambda light chain | |
| Product code | ShAM/BJL(SD+HD)/TRITC | |
| Biological origin | Sheep | |
| Physical form | Fluorochrome coupled purified sheep IgG lyophilized from a solution in phosphate buffered saline (pH 7.2). | |
| Preservative | No preservative added, as it may interfere with the antibody activity | |
| Immunogen | A pool of purified Bence Jones lambda proteins isolated from mouse urine. Freund's complete adjuvant is used in the first step of the immunization procedure. | |
| Adsorption | Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with other mouse serum proteins. | |
| Purification | Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt-precipitation and purification of the IgG fraction by DEAE-chromatography. | |
| Identity & Specificity | The reactivity of the antiserum is directed to the surface and hidden determinants of Ig lambda light chain. In immunoelectrophoresis this antiserum is reacting with polyclonal and monoclonal immunoglobulins of the lambda type, Bence Jones proteins as well as free light chains of the lambda type. This antiserum does not react with any other protein of mouse serum or plasma. | |
| 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. | |
| Physicochemical characteristics | IgG protein concentration is 10 mg/ml. Fluorochrome/IgG protein ratio (F/P) approximately 3.7. No foreign proteins added. | |
| Fluorescent marker | Tetramethylrhodamine isothiocyanate isomer R. It has an orange-red fluorescence. Excitation: 554 nm, emission: 573 nm. To avoid nonspecific background staining, specially synthesized and exceptionally pure crystalline isomer R has been used instead of the usual racemic mixture. Although its fluorescence efficiency is less than of FITC, TRITC conjugates have the advantage of significantly less photo bleaching. This facilitates their use in quantitative cell-counting procedures. | |
| Conjugation procedure | A proprietary technique for the binding to TRITC is used, followed by several purification steps to remove free reactants and protein aggregates. After each step activity and specificity are tested in a variety of techniques. The conjugate is lyophilized to assure stability and long shelf life. | |
| Intended uses | This conjugate is intended for use in direct immunofluorescence for the detection of polyclonal immunoglobulins, purified monoclonal immunoglobulins of the lambda type as well as free light chains or Bence Jones proteins of the lambda type in serum or other body fluids. <i>This immunoconjugate is not pre-diluted. The optimum working dilution of each conjugate should be established by titration before being used. Excess labelled antibody must be avoided because it may cause high unspecific background staining and interfere with the specific signal.</i> Working dilutions are usually between 1:10 and 1:40. | |
| Handling | The lyophilized product is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. It is reconstituted by adding 1 ml sterile distilled water, spun down to remove insoluble particles, divided into small aliquots, frozen and stored at or below -20°C. Prior to use, an aliquot is thawed slowly at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at +4°C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the product. | |
| Packing | Vial with 1 ml immunoconjugate. | |
| Storage / shelf life | Lyophilized at +4°C reconstituted at or below -20°C reconstituted at +4°C | at least 10 years 3-5 years 7 days |
| Caution | This immunoconjugate should be handled by qualified persons only and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For <i>in vitro</i> laboratory research purposes only. | |

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