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| Description | Biotin-conjugated IgG fraction of polyclonal rabbit antiserum to human Ig kappa chain, free and bound | |
| Product code | RAHu/BJK(SD+HD)/Bio | |
| Biological origin | Rabbit | |
| Physical form | Biotin-coupled purified hyperimmune rabbit IgG lyophilized from a solution in phosphate buffered saline (PBS, pH 7.2). | |
| Preservative | No preservative added, as it may interfere with the antibody activity | |
| Immunogen | A pool of purified Bence Jones kappa proteins isolated from human urine. Freund's complete adjuvant is used in the first step of the immunization procedure. | |
| Purification | Hyperimmune antisera with strong precipitating activity are selected for fractionation by salt-precipitation and purification of the IgG fraction by DEAE-chromatography. | |
| Adsorption | Immunoaffinity adsorbed using insolubilized antigens as required, to eliminate antibodies reacting with human serum proteins. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum. | |
| Identity & Specificity | The reactivity of the antiserum is directed to the surface and hidden determinants of Ig kappa chain. A reaction is obtained with intact polyclonal or monoclonal immunoglobulins of the kappa type, as well as free kappa light chains. | |
| Cross-reactivity | Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins, 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 10 mg/ml. Biotin/IgG protein molar ratio (B/P) is approximately 4.4. No foreign proteins added. | |
| Marker | N-Hydroxysuccinimidobiotin. | |
| Conjugation procedure | A proprietary technique for the binding to biotin is used, followed by several purification steps. 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 use | <p>To identify light chain type in immunocytochemical and immunohistochemical staining of immunoglobulins and to demonstrate circulating monoclonal immunoglobulins and Bence Jones proteins of the kappa type in serum or other body fluids. As a second step an avidin or streptavidin conjugate of the user's choice has to be used.</p> <p><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></p> <p>Working dilutions for histochemical and cytochemical use are usually between 1:100 and 1:500; in ELISA and comparable non-precipitating antibody-binding assays between 1:1,000 and 1:5,000.</p> | |
| Handling | The lyophilized conjugate 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 in the dark 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 immunoconjugate. | |
| Packing | Vial with 1 ml lyophilized immunoconjugate. | |
| Storage / shelf life | Lyophilized at +4°C | at least 10 years |
| | reconstituted at or below -20°C | 3-5 years |
| | reconstituted at +4°C | 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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