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| **Description** | **Horseradish peroxidase conjugated purified monoclonal mouse antibody to human Ig kappa chain, free and bound** |
| **Product code** | MAHu/BJK/PO |
| **Biological origin** | Mouse, clones NI 285, NI 250 |
| **Mouse isotype** | IgG1κ |
| **Physical form** | Purified monoclonal mouse IgG1κ conjugated with horseradish peroxidase, lyophilized from a solution in phosphate buffered saline (pH7.2). |
| **Preservative** | No preservative added, as it may interfere with the antibody activity. No foreign protein added. |
| **Immunogen** | Highly purified Bence Jones kappa proteins isolated from pooled human urine. |
| **Identity & Specificity** | The reactivity of this preparation of two monoclonal antibodies is restricted to a surface determinant on the kappa light chain. It is reacting with polyclonal and monoclonal immunoglobulins of the kappa type, as well as free kappa light chains as tested in direct binding enzyme immunoassay, immunoblotting, immuno-precipitation and direct immunoperoxidase staining. |
| **Cross-reactivity** | The antibody does not react with any other component of the human immunoglobulin system or any other human plasma protein as tested. This antiserum has not been tested for cross-reactivity with other species. |
| **Physicochemical characteristics** | IgG concentration is 0.4 mg/ml. Peroxidase/IgG protein molar ratio (E/P) approximately 1.7. No foreign proteins added. |
| **Enzyme marker** | Horseradish peroxidase enriched for isoenzyme C (RZ=3.2). |
| **Conjugation procedure** | Conjugation is carried out using a proprietary modification of the periodate method, followed by several purification steps. After each step activity and specificity are tested in a variety of techniques. No foreign protein has been added. The conjugate is lyophilized to assure stability and long shelf life. |
| **Intended use** | To identify the light chain type of immunoglobulins or free light chains in human serum, other body fluids, cell and tissue substrates and to determine its concentration in techniques as ELISA, direct immunoperoxidase staining and immunoblotting. The optimum working dilution is an assay-related characteristic and should always be determined by titration. For histochemical use optimum dilutions are mostly from 1:50 to 1:200; in ELISA from 1:200 upwards; in Western blotting from 1:400 upwards. These data should be interpreted as general recommendations only. |
| **Handling** | The lyophilized product is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. Reconstitute the lyophilized product by adding 0.5 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Avoid repeated thawing and freezing. If a slight precipitation occurs upon storage, this should be removed by centrifugation and will not affect the performance of the product. Diluted solutions should be stored at +4ºC, not refrozen, and preferably used the same day. |
| **Packing** | Vial with 0.5 ml lyophilized immunoconjugate. |
| **Storage / shelf life** | Lyophilized at +4ºC — at least 10 years<br>reconstituted at or below -20°C — 3-5 years<br>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 *in vitro* research purposes only. |

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