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| **Description** | **Monoclonal mouse antibody to human IgG3, subclass specific** |
| **Product code** | MAHu/IgG3/MAb |
| **Biological origin** | Mouse, clone NI 330 (HP 6050) |
| **Mouse isotype** | IgG1κ |
| **Physical form** | Purified mouse IgG1κ lyophilized from a solution in phosphate buffered saline (pH 7.2). |
| **Preservative** | No preservative added, as it may interfere with the antibody activity. No foreign protein added. |
| **Immunogen** | Highly purified monoclonal IgG3 isolated from human serum |
| **Identity & Specificity** | The reactivity of the antiserum is restricted to a subclass specific determinant on the F(ab')2 part of the IgG3 molecule as tested in indirect binding enzyme immunoassay, immunoblotting, immunoprecipitation and indirect immunoperoxidase staining of cytoplasmic Ig. |
| **Cross-reactivity** | The antiserum does not react with any other component of the human Ig system or any other human plasma protein as tested. This antiserum has not been tested for cross-reactivity with other species. |
| **Protein concentration** | IgG concentration is 0.4 mg/ml. No foreign proteins added. |
| **Intended use** | To identify the presence of IgG3 in human serum, other body fluids, cell and tissue substrates and to determine its concentration in techniques as ELISA, indirect immunoperoxidase and indirect immunofluorescence staining of cytoplasmic IgG3, 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 1:500 upwards; in Western blotting from 1:1,000 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 monoclonal antibody. |
| **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 product 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. |
| **Reference** | Evaluation of monoclonal antibodies having specificity for human IgG subclasses:<br>Results of the 2nd IUIS/WHO collaborative study. Immunology Letters **31** (1992), 143-168. Jefferis R, Reimer C B, Skavril F, de Lange G, Goodall D M, Bentley T L, Phillips D J, Vlug A, Harada S, Radl J , Claassen E, Boersma J A, and Coolen J. |

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