

<b>Description</b>	<b>Tetramethylrhodamine isothiocyanate-conjugated purified monoclonal mouse antibody to human IgA2, subclass specific</b>
<b>Product code</b>	MAHu/IgA2/TRITC
<b>Biological origin</b>	Mouse, clone NI 512 (A89-038)
<b>Mouse isotype</b>	IgG1 $\kappa$
<b>Physical form</b>	Purified monoclonal mouse IgG1 $\kappa$ conjugated with TRITC, lyophilized from a solution in phosphate buffered saline (pH7.2).
<b>Preservative</b>	No preservative added, as it may interfere with the antibody activity. No foreign protein added.
<b>Immunogen</b>	Highly purified monoclonal IgA2 isolated from human serum.
<b>Identity &amp; Specificity</b>	The reactivity of the antiserum is restricted to an subclass specific determinant on IgA2 as tested in haemagglutination, haemagglutination inhibition, direct binding enzyme immunoassay, competitive inhibition enzyme immunoassay, immunoblotting, immunoprecipitation, latex agglutination assay and histochemistry (Results of an IUIS/WHO collaborative study, Mestecky J. et al. (1996) J. Immunol. Methods <b>193</b> , 103-148).
<b>Cross-reactivity</b>	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.
<b>Physicochemical characteristics</b>	IgG concentration is 0.4 mg/ml. Fluorochrome/IgG protein molar ratio (F/P) approximately 2.5. No foreign proteins added.
<b>Fluorescent marker</b>	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.
<b>Conjugation procedure</b>	Conjugation is carried out using a proprietary technique for the coupling of TRITC, 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.
<b>Intended use</b>	To identify the presence of IgA2 in human serum, other body fluids, cell and tissue substrates and to determine its concentration in techniques as immunofluorescence staining of cytoplasmic IgA2, and immunoblotting using a peroxidase labelled monoclonal antibody against TRITC. The optimum working dilution is an assay-related characteristic. It may vary widely and should always be determined by titration. For histochemical use optimum dilutions are mostly from 1:20 to 1:100; in Western blotting from 1:200 upwards. Working dilutions may vary widely, strongly depending on the test conditions. These data should be interpreted as general recommendations only.
<b>Handling</b>	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 +4°C, not refrozen, and preferably used the same day.
<b>Packing</b>	Vial with 0.5 ml lyophilized immunoconjugate.
<b>Storage / shelf life</b>	Lyophilized at +4°C at least 10 years reconstituted at or below -20°C 3-5 years reconstituted at +4°C 7 days
<b>Caution</b>	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 <i>in vitro</i> research purposes only.

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