

Datasheet for ABIN965421

Isotyping Kit: Rapid Mouse Monoclonal Isotyping Kit IsoMax™[Go to Product page](#)**2** Images

Overview

Quantity: 5 pack

Application: Isotyping (IsoT)

Product Details

Brand: IsoMax™

Characteristics: Concentration Definition: Components in this kit are sufficient to run 5 isotype class and subclass determinations.

Target Details

Background: Use IsoMax™ Rapid Mouse Monoclonal Isotyping Kit for determining the class and subclass of a monoclonal antibody. Isotype determination is a prerequisite for selecting the best immunoglobulin purification method. For example, IgA and IgM are often best purified by size (gel filtration) or on immunoaffinity support columns, whereas IgG2a and IgG2b can be purified by protein A chromatography at a pH of 7 to 8. IgG1 binds best to protein A at a pH of 8 to 9. Isotype determination is also required if an antibody is to be digested by pepsin or papain as each isotype shows varying sensitivity to enzymatic digestion. Please call technical service for further assistance.

Synonyms: Isotyping kit, mouse subclass determination, IgG isotype, immunoglobulin isotyping

Application Details

Application Notes: Each kit contains 5 packs of 2 cassettes each: one cassette for detecting IgG1, IgG2a and IgG2b the other cassette for detecting IgG3, IgA and IgM. When a properly diluted sample containing a specific isotype antibody is added to the sample well, a specific class and

Application Details

subclass soluble complex is formed with the embedded gold conjugates. These complexes travel the length of the membrane and are resolved on the anti-isotype and anti-class-specific antibody impregnated membrane. A control line will appear on the membrane in the region marked "C" on the cassette indicating a successful run (positive internal control). Typically when antibodies are applied at a concentration of 10 ng/mL the best results are obtained by reading the cassette 5 to 10 minutes after application. Results should NOT be read after 10 minutes.

Comment: Detection Kit Type: Isotyping Kit

Restrictions: For Research Use only

Handling

Storage: RT/4 °C

Images



Image 1. IsoMax™ Rapid Mouse Monoclonal Isotyping Kit results showing that for ascites fluid the darker red line indicates the class or subclass of antibody present. Often an additional weaker red line may appear indicating the presence of host (endogenous) serum immunoglobulins present in the ascites.

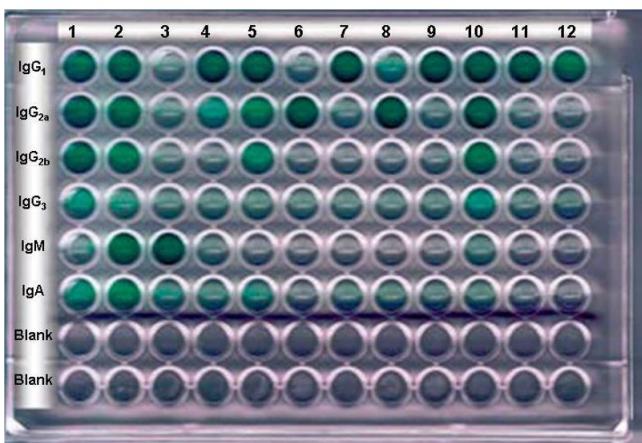


Image 2. IsoMax™ Isotyping Kit compares to an ELISA-format isotyping assay. Results demonstrate outstanding correlation between these two assay formats. The ELISA required controls, an ELISA plate and substrate and took 8 hours of hands-on time to coat the plates, block and subsequently perform the assay using 12 different antibodies. The IsoMax™ Isotyping Kit pipetting time was 10 minutes, all 20 assays were run simultaneously. Each

cassette was read at 5 minutes. The total hands-on time for the IsoMax™ Kit, including scoring of the results, was under twenty minutes.