Product No. H-2143
Monoclonal anti-Hemocyanin
Mouse Ascites Fluid
Clone KLH-60

Lot 012H4842

Monoclonal anti-Hemocyanin (mouse IgG2a isotype) is derived from the hybridoma produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Keyhole limpet hemocyanin (KLH) conjugated to γ-2-tyrosine peptide was used as the immunogen. The isotype is determined by a double diffusion assay using immunoglobulin and subclass specific antisera. The product is provided as ascites fluid with 0.1% sodium azide (see MSDS)* as a preservative.

Specificity

Monoclonal anti-hemocyanin is immunospecific for hemocyanin as determined by indirect ELISA and dot blot assays. The antibody reacts with hemolymph from horseshoe crab, but not human red blood cell hemoglobin.

Description

Hemocyanins are regarded as coherent in taxonomic distribution. They are found in only two groups: the molluscs and the arthropods. Keyhole limpet hemocyanin has been used traditionally as a protein carrier for hapten-carrier conjugates in immunochemistry. Antibodies can be raised to small molecules by immuniztion with conjugates made of low molecular weight substances (peptides, hormones, drugs) covalently linked to proteins. KLH has been regarded as a superior carrier due to the fact that it evokes strong responses to the haptens conjugated to it.

Uses

Monoclonal anti-Hemocyanin may be used as a control reagent for the preparation and screening of hapten-carrier conjugates and their respective antibodies.

Working Dilution

A working dilution of 1:1000 was determined by an indirect ELISA using 100µl of a 10µg/ml solution of KLH per microtiter plate well as a coating solution.
In order to obtain best results it is recommened that each individual user determine their optimum working dilution by titration assay.

Storage

For continuous use, store 0-5°C. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is **not** recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

*Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

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