

Product Information

Anti-Hemocyanin (KLH)

produced in rabbit, affinity isolated antibody

Catalog Number **H0892**

Product Description

Antiserum is produced in rabbit using hemocyanin isolated from keyhole limpets as the immunogen. Antibody is isolated from rabbit anti-hemocyanin antiserum by immunospecific purification to remove essentially all rabbit serum proteins, including immunoglobulins, that do not specifically bind to hemocyanin.

The purified antibody is immunospecific for hemocyanin as determined by immunoelectrophoresis (IEP) and Ouchterlony double diffusion (ODD) using hemocyanin (KLH). It does not react with hemolymph from horseshoe crab, or human red blood cell hemoglobin.

Identity and purity of the antibody is established by immunoelectrophoresis. Electrophoresis of the antibody preparation followed by diffusion versus anti-rabbit IgG and anti-rabbit whole serum results in single arcs of precipitation.

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 immunization with conjugates made of low molecular weight substances (peptides, hormones, drugs) covalently linked to proteins. KLH has been regarded as a superior carrier. Affinity isolated antibody to hemocyanin may be used as a control reagent for the preparation and immunization of hapten-carrier conjugates.

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Precautions

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage

For continuous use, store 2-8 °C for up to one month. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is **not** recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

Product Profile

Indirect ELISA: a working dilution of 1:20,000 is determined using 5 µg/ml hemocyanin for coating.

IgG Concentration = 2-2.5 mg/ml by absorbance at 280 nm ($E_{280}^{1\%} = 14.0$).

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