



KLH-B (N-12): sc-50033

BACKGROUND

Hemocyanin proteins, which are freely dissolved in mollusk and arthropod hemolymph, belong to the tyrosinase family of proteins. Hemocyanin A chain (KLH-A) and hemocyanin B chain (KLH-B) are copper-containing oxygen carriers. KLH-A and KLH-B are potent immunogens used as carrier proteins for haptens and in human vaccines. As carrier proteins, KLH-A and KLH-B can also be conjugated to low molecular weight molecules, such as amino acids and peptides, which render the molecules more immunogenic due to the immunogenicity of KLH-A and KLH-B and the size of the conjugate complex. KLH-A and KLH-B are also used in the immunotherapeutic treatment of bladder cancer as an alternative to the drug Bacille Calmette-Guerin (BCG).

REFERENCES

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SOURCE

KLH-B (N-12) is an affinity purified goat polyclonal antibody raised against a peptide representing full length KLH-B of *Megathura crenulata* origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50033 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KLH-B (N-12) is recommended for detection of Hemocyanin B chain by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.