

Biotin (BIO-8): sc-69711

BACKGROUND

Biotin, a water-soluble B complex vitamin, is required by all organisms but can only be synthesized by yeasts, molds, algae, some plant species and bacteria. Biotin, a tetrahydrothiophene ring fused with an ureido (tetrahydro-imidazole) ring, is important in the catalysis of essential metabolic reactions to synthesize fatty acids, to metabolize leucine and in gluconeogenesis. Human intestinal bacteria generally produce in excess of the body's daily Biotin requirement. The occurrence of Biotin in nature is widespread and, although extremely rare, Biotin deficiency is associated with dermatitis, nausea, loss of hair, depression, muscle pain and reproductive disturbances.

REFERENCES

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STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

SOURCE

Biotin (BIO-8) is a mouse monoclonal antibody raised against Biotin-labeled DNA and Biotin-labeled alkaline phosphatase.

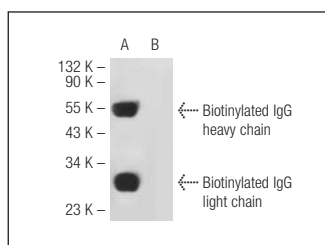
PRODUCT

Each vial contains 500 µl ascites containing IgG₂ with < 0.1% sodium azide and 0.7% BSA.

APPLICATIONS

Biotin (BIO-8) is recommended for detection of Biotin; permits the formation of antibody-Biotin complexes, thus enhancing the sensitivity of the detection system; non cross-reactive with Streptavidin, Digoxigenin or BSA.

DATA



Biotin (BIO-8): sc-69711. Western blot analysis of Biotin conjugated goat IgG (A) and normal goat IgG (B).

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.