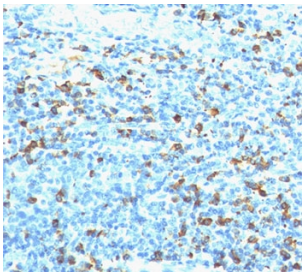
Biotin Antibody / Vitamin B7 / Vitamin H [clone Hyb-8] (V2319)

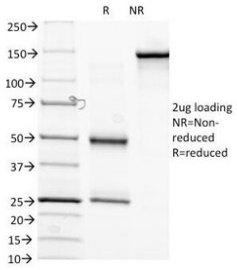
Catalog No.	Formulation	Size
V2319-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2319-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2319SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Biotin
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	Hyb-8
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Localization	Depends on target localization
Applications	Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This **Biotin antibody** is available for research use only.



IHC staining of human tonsil with biotinylated lambda light chain antibody followed by anti-Biotin antibody (clone Hyb-8). Note cell membrane & cytoplasmic staining.



SDS-PAGE Analysis of Purified, BSA-Free Biotin Antibody (clone Hyb-8). Confirmation of Integrity and Purity of the Antibody.

Description

Biotin antibody clone Hyb-8 is a monoclonal antibody directed against biotin, a small vitamin that functions as a coenzyme in carboxylase reactions and is widely used as a molecular tag in biochemical assays. Because biotin binds with very high affinity to avidin and streptavidin, it is a standard component of detection systems in molecular biology, immunology, and biotechnology. NSJ Bioreagents supplies Biotin antibody clone Hyb-8 to support research that requires sensitive and specific detection of biotinylated molecules.

Biotin antibody clone Hyb-8 binds directly to biotin conjugates, enabling detection of biotinylated proteins, peptides, nucleic acids, and other biomolecules. It is widely used in immunoassays and biochemical studies where biotin labeling has been employed to tag molecules of interest. This antibody eliminates the need for avidin or streptavidin intermediates, providing researchers with flexibility in experimental design.

In cell biology, Biotin antibody clone Hyb-8 has been applied to track proteins or lipids labeled with biotin, allowing precise localization within cells and tissues. Its ability to bind directly to biotinylated molecules makes it useful in microscopy and flow-based studies where multicolor panels require careful reagent selection.

In molecular biology, clone Hyb-8 is applied to verify biotinylation efficiency in experiments using biotin tags for purification, capture, or detection. The antibody has been employed in western blotting, ELISA-style studies, and protein interaction assays, supporting workflows that rely on biotin-streptavidin technology.

Beyond laboratory assays, Biotin antibody clone Hyb-8 has applications in biotechnology, including quality control of biotinylated reagents and engineered proteins. Its consistent performance ensures reproducible results, which is essential for both research and applied biotechnology development.

Validated for multiple experimental approaches, Biotin antibody clone Hyb-8 consistently provides strong and specific detection of biotin conjugates. It has been cited in diverse studies spanning immunology, molecular biology, and biotechnology. Alternate names include vitamin B7 antibody, vitamin H antibody, and biotin tag antibody.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the mAb to be titered up or down for optimal performance.

1. No special pretreatment is required for the immunohistochemical staining of formalin-fixed, paraffin-embedded tissues.

Immunogen

Biotinylated sheep immunoglobulin was used as the immunogen for this Biotin antibody.

Storage

Store the Biotin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (2)

Copyright © NSJ Bioreagents. All rights reserved.