Tribioscience

VD Detection Antibody (TBS10299)

Catalog	Unit Size
TBS10299-20	20 µg
TBS10299-100	100 µg
TBS10299-500	500 µg

Description

Tribioscience VD Detection Antibody is a high-affinity monoclonal antibody specifically developed for conjugation with signal markers such as fluorescent microspheres, enzymes, or colloidal gold particles. It is designed for use as the detection antibody in lateral flow assays (LFA), chemiluminescence immunoassays (CLIA), or other immunodetection platforms for quantitative and qualitative measurement of 25-hydroxyvitamin D (25(OH)D). The antibody demonstrates excellent sensitivity, low background, and high stability during conjugation processes. It performs optimally in various sample matrices including serum, plasma, and whole blood. This antibody is intended for use as a matched pair Tribioscience VD Coating Antibody (TBS10300).

Synonyms: 25-OH-VD; Vitamin D

Key Features

- Type: Monoclonal antibody (mouse origin)
- Concentration: 1 mg/mL
- Molecular Weight: 150 kDa
- Purity: ≥98%
- Species: Sheep
- Isotype: IgG
- Expressed Host: CHO
- Storage Conditions: -20°C. Avoid multiple freeze/thaw cycles
- Preservation: Formulated in PBS with 0.1% preservative
- Shelf Life: 12 months (unopened)

Performance Characteristics:

- Stable binding after conjugation with colloidal gold and fluorescent microspheres
- Low background with strong signal amplification
- Compatible with common conjugation buffers and blocking reagents (e.g., BSA, MES, EDC/NHS)
- Demonstrated stability at 37°C for at least 7 days post-conjugation

Applications:

- Detection antibody for colloidal gold, fluorescence microsphere, and CLIA platforms
- Lateral Flow Assays (LFA)
- Time-Resolved Fluorescent Immunoassays (TRFIA)
- Chemiluminescence Immunoassay (CLIA)
- Vitamin D diagnostics in serum, plasma, and whole blood

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