

## Datasheet for ABIN5655029 HBd ELISA Kit



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### Overview

Quantity: 96 tests

Target: HBd

Reactivity: Human

Method Type: Competition ELISA

Detection Range: 2.47 µg/mL - 200 µg/mL

Minimum Detection Limit: 2.47 µg/mL

Application: ELISA

### Product Details

Sample Type: Cell Lysate, Plasma, Serum

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: This assay has high sensitivity and excellent specificity for detection of Hemoglobin Delta (HBd). No significant cross-reactivity or interference between Hemoglobin Delta (HBd) and analogues was observed.

Sensitivity: 0.91 µg/mL

### Target Details

Target: HBd

Alternative Name: Hemoglobin Delta ([HBd Products](#))

## Target Details

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Background: Gene Name: Hemoglobin Delta  
Gene Aliases: Delta-globin

Gene ID: 3045

UniProt: [P02042](#)

## Application Details

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Comment: The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5 % within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

Assay Time: 2 h

Plate: Pre-coated

Protocol: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Hemoglobin Delta (HBd) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Hemoglobin Delta (HBd) and unlabeled Hemoglobin Delta (HBd) (Standards or samples) with the pre-coated antibody specific to Hemoglobin Delta (HBd). After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of Hemoglobin Delta (HBd) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Hemoglobin Delta (HBd) in the sample.

Assay Precision: Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Hemoglobin Delta (HBd) were tested 20 times on one plate, respectively  
Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Hemoglobin Delta (HBd) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100  
Intra-Assay: CV<10%  
Inter-Assay: CV<12%

Restrictions: For Research Use only

## Handling

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Handling Advice:	The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.
Storage:	4 °C,-20 °C
Storage Comment:	-20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at 4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant pack. Minimize freeze/thaw cycles.
Expiry Date:	4-8 months