

## Datasheet for ABIN5658271 **MPZ ELISA Kit**



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### Overview

Quantity:	96 tests
Target:	MPZ
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.312 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.312 ng/mL
Application:	ELISA

### Product Details

Sample Type:	Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Protein Zero, Myelin (MPZ). No significant cross-reactivity or interference between Protein Zero, Myelin (MPZ) and analogues was observed.
Sensitivity:	0.122 ng/mL

### Target Details

Target:	MPZ
Alternative Name:	Protein Zero, Myelin ( <a href="#">MPZ Products</a> )

## Target Details

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Background: Gene Name: Protein Zero, Myelin  
Gene Aliases: P0, DSS, CHM, CMT4E, CMT1, CMT1B, CMT2I, CMT2J, CMTDI3, HMSNIB, MPP, Myelin Protein Zero, Charcot-Marie-Tooth Neuropathy 1B, Myelin peripheral protein

## 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: 3 h

Plate: Pre-coated

Protocol: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Protein Zero, Myelin (MPZ) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Protein Zero, Myelin (MPZ) and unlabeled Protein Zero, Myelin (MPZ) (Standards or samples) with the pre-coated antibody specific to Protein Zero, Myelin (MPZ). 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 Protein Zero, Myelin (MPZ) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Protein Zero, Myelin (MPZ) in the sample.

Assay Precision: Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Protein Zero, Myelin (MPZ) were tested 20 times on one plate, respectively  
Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Protein Zero, Myelin (MPZ) were tested on 3 different plates, 8 replicates in each plate.  $CV(\%) = \frac{SD}{\text{mean}} \times 100$   
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

## Handling

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specimen samples should be assayed in duplicate. Once the procedure has been started, all steps should be completed without interruption.

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Storage: 4 °C,-20 °C

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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.

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Expiry Date: 4-8 months