

## Datasheet for ABIN5658914 **S1PR1 ELISA Kit**



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### Overview

Quantity: 96 tests

Target: S1PR1

Reactivity: Mouse

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 Sphingosine 1 Phosphate Receptor 1 (S1PR1). No significant cross-reactivity or interference between Sphingosine 1 Phosphate Receptor 1 (S1PR1) and analogues was observed.

Sensitivity: 0.121 ng/mL

### Target Details

Target: S1PR1

Alternative Name: Sphingosine 1 Phosphate Receptor 1 ([S1PR1 Products](#))

## Target Details

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Background: Gene Name: Sphingosine 1 Phosphate Receptor 1  
Gene Aliases: CD363, EDG1, S1-PR1, S1P1, ECGF1, CHEDG1, Endothelial differentiation G-protein coupled receptor 1, Sphingolipid G-Protein-Coupled Receptor 1

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Pathways: [Signaling Events mediated by VEGFR1 and VEGFR2](#)

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## 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.

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Assay Time: 3 h

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Plate: Pre-coated

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Protocol: The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Sphingosine 1 Phosphate Receptor 1 (S1PR1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Sphingosine 1 Phosphate Receptor 1 (S1PR1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Sphingosine 1 Phosphate Receptor 1 (S1PR1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm  $\pm$  10nm. The concentration of Sphingosine 1 Phosphate Receptor 1 (S1PR1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

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Assay Precision: Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Sphingosine 1 Phosphate Receptor 1 (S1PR1) were tested 20 times on one plate, respectively  
Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Sphingosine 1 Phosphate Receptor 1 (S1PR1) were tested on 3 different plates, 8 replicates in each plate.  $CV(\%) = SD/mean \times 100$   
Intra-Assay:  $CV < 10\%$   
Inter-Assay:  $CV < 12\%$

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Restrictions: For Research Use only

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## 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