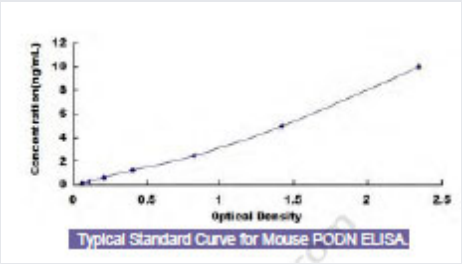
# Podocan (PODN) ELISA Kit for Mouse

## PRODUCT OVERVIEW

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| **Product Name** | Podocan (PODN), ELISA Kit |
| **Full Product Name** | Mouse Podocan (PODN) ELISA Kit |
| **Product Gene Name** | PODN elisa kit |
| **Product Synonym Names** | PCAN; SLRR5A |
| **Species Reactivity** | Mouse |
| **Assay Type** | Sandwich |
| **Samples** | Tissue homogenates and other biological fluids. |
| **Detection Range** | 0.156-10ng/mL |
| **Sensitivity** | 0.057ng/mL |
| **Specificity** | This assay has high sensitivity and excellent specificity for detection of PODN. No significant cross-reactivity or interference between PODN and analogues was observed. |
| **Preparation and Storage** | For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C. |
| **Inter-assay Precision** | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PODN were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12% |
| **Intra-assay Precision** | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PODN were tested 20 times on one plate, respectively. Intra-Assay: CV<10% |
| **Molecular Weight** | 45,196 Da |
| **3D Structure** | ModBase 3D Structure for Q7TQ62 |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Related Product Information for PODN elisa kit** | Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PODN in mouse tissue homogenates and other biological fluids.<br><br>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to PODN. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to PODN. 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 PODN, 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 +/- 10nm. The concentration of PODN in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
| **Other Notes** | Small volumes of PODN elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for PODN purchase** | MBS450194 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Podocan (PODN) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PODN. The ELISA analytical biochemical technique of the MBS450194 kit is based on PODN antibody-PODN antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PODN antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PODN. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |




**Typical Testing Data/Standard Curve (for reference only) of PODN elisa kit**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PODN. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 552953828 |
| **NCBI GeneID** | 242608 |
| **NCBI Accession #** | NP_001272885.1 |
| **UniProt Primary Accession #** | Q7TQ62 |
| **UniProt Secondary Accession #** | Q8BM45; A2A8F3 |
| **UniProt Related Accession #** | Q7TQ62 |
| **GenBank Nucleotide #** | NM_001285956.1 |
| **NCBI Official Full Name** | podocan |
| **NCBI Official Synonym Full Names** | podocan |
| **NCBI Official Symbol** | Podn |
| **NCBI Official Synonym Symbols** | Pcan; SLRR5A; 9430070G18 |
| **UniProt Protein Name** | Podocan |
| **Protein Family** | Podocan |
| **UniProt Gene Name** | Podn |
| **NCBI Protein Information** | podocan |
| **UniProt Comments for PODN** | Negatively regulates cell proliferation and cell migration, especially in smooth muscle cells. |
| **Research Articles on PODN** | **1.** Podn was characterized in cultured mouse cells. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

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