# Mouse Proline-rich protein 15 (PRR15) ELISA Kit

Catalog No: #EK11404

Package Size: #EK11404-1 48T #EK11404-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

## Description

| | |
|---|---|
| Product Name | Mouse Proline-rich protein 15 (PRR15) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Mouse (Mus musculus) |
| Accession No. | Q9D1T5 |
| Uniprot | Q9D1T5 |
| GeneID | 78004; |
| Storage | The stability of ELISA 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.<br>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C). |

## Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.059 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PRR15 in samples. An antibody specific for PRR15 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRR15 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRR15 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PRR15 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Proline rich 15 (Prr15), which encodes a protein of unknown function, is expressed almost exclusively in postmitotic cells both during fetal development and in adult tissues, such as the intestinal epithelium and the testis. Prr15/PRR15 expression was consistently observed in mouse gastrointestinal (GI) tumors caused by mutations in the Apc gene, as well as in several advanced stage human CRCs. In contrast, no Prr15 expression was detected in intestinal tumors derived from mice carrying mutations in the Smad3, Smad4, or Cdkn1b genes. These findings, combined with the fact that a majority of sporadic human CRCs carry APC mutations, strongly suggest that the expression of Prr15/PRR15 in mouse and human GI tumors is linked, directly or indirectly, to the absence of the APC protein or, more generally, to the disruption of the Wnt signaling pathway.

Note: This product is for in vitro research use only