

# Mouse Protein tyrosine phosphatase type IVA 3 (PTP4A3) ELISA Kit

Catalog No: #EK7972

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Package Size: #EK7972-1 48T #EK7972-2 96T

## Description

Product Name	Mouse Protein tyrosine phosphatase type IVA 3 (PTP4A3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	PRL-3; PRL-R; PRL3; potentially prenylated protein tyrosine phosphatase
Accession No.	Q9D658
Uniprot	Q9D658
GeneID	19245;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200  $\mu$ L

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 PTP4A3 in samples. An antibody specific for PTP4A3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTP4A3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTP4A3 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 PTP4A3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Protein tyrosine phosphatase type IVA 3 is an enzyme belongs to a small class of prenylated protein tyrosine phosphatases (PTPs). PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. This class of PTPs contain a PTP domain and a characteristic C-terminal prenylation motif. Studies of this class of PTPs in mice demonstrated that they were prenylated proteins in vivo, which suggested their association with cell plasma membrane. Overexpression of this gene in mammalian cells was reported to inhibit angiotensin-II induced cell calcium mobilization and promote cell growth. Two alternatively spliced variants exist.Mainly expressed in cardiomyocytes and skeletal muscle; also found in pancreas. Consistently overexpressed in colon cancer metastasis.

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Note: This product is for in vitro research use only