

# Rat Protein tyrosine phosphatase type IVA 1 (PTP4A1) ELISA Kit

Catalog No: #EK7978

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)

Package Size: #EK7978-1 48T #EK7978-2 96T

Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Rat Protein tyrosine phosphatase type IVA 1 (PTP4A1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	RP5-1148A21.2; DKFZp779M0721; HH72; PRL-1; PRL1; PTP(CAAX1); PTPCAAX1; Protein tyrosine phosphatase IVA1 protein tyrosine phosphatase type IVA protein 1
Accession No.	Q78EG7
Uniprot	Q78EG7
GeneID	100365697;103693189;29463;
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.  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:Request Information

Sensitivity:Request Information

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 PTP4A1 in samples. An antibody specific for PTP4A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTP4A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTP4A1 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 PTP4A1 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 1 is an enzyme belongs to a small class of prenylated protein tyrosine phosphatases (PTPs), which contains a PTP domain and a characteristic C-terminal prenylation motif. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. This tyrosine phosphatase is a nuclear protein, but may primarily associate with plasma membrane.

The surface membrane association of this protein depends on its C-terminal prenylation. Overexpression of this gene in mammalian cells conferred a transformed phenotype, which implicated its role in the tumorigenesis. Studies in rat suggested that this gene may be an immediate-early gene in mitogen-stimulated cells.

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Note: This product is for in vitro research use only