# Human Prostate tumor-overexpressed gene 1 protein (PTOV1) ELISA Kit

Catalog No: #EK7983

Package Size: #EK7983-1 48T #EK7983-2 96T

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

## Description

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|---|---|
| Product Name | Human Prostate tumor-overexpressed gene 1 protein (PTOV1) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Human (Homo sapiens) |
| Other Names | ACID2; DKFZp586I111; MGC71475; prostate tumor overexpressed gene 1 |
| Accession No. | Q86YD1 |
| Uniprot | Q86YD1 |
| GeneID | 53635; |
| 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: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 PTOV1 in samples. An antibody specific for PTOV1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPTOV1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTOV1 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 PTOV1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:PTOV1 was predicted to form alternating alpha helices and beta sheets. Normal prostate expressed low PTOV1 levels. Western blot analysis of prostate tumor tissue detected PTOV1 at an apparent molecular mass of 58 kD. Immunocytochemical analysis detected endogenous PTOV1 in the cytoplasm, concentrated around the nucleus.PTOV1 was overexpressed in 71% of 38 prostate carcinomas and in 80% of samples with prostate intraepithelial neoplasia. High levels of PTOV1 in tumors correlated significantly with proliferative index and localization of PTOV1 in the nucleus. In quiescent cultured prostate tumor cells, PTOV1 localized to the cytoplasm and was excluded from nuclei. After serum stimulation, PTOV1 partially translocated to the nucleus at the beginning of S phase.

Note: This product is for in vitro research use only