

# Polyclonal Anti-PTOV1 Antibody

Catalog Number: RP1087

## Description

<b>Gene Name</b>	prostate tumor overexpressed 1
<b>Recommended Protein Name</b>	Prostate tumor-overexpressed gene 1 protein
<b>Lot No.</b>	0101512Da558785
<b>Size</b>	100µg/vial
<b>Form</b>	lyophilized
<b>Ig type</b>	Rabbit IgG
<b>Specificity</b>	No cross reactivity with other proteins.
<b>Purification</b>	Immunogen affinity purified.
<b>Species</b>	<b>Reacts with:</b> rat <b>Predicted to work with:</b> human
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence at the C-terminus of human PTOV1 (385-414aa NFVNGIRRVIANQQQVLQRNLEQEQQRGM), different from the related mouse and rat sequences by one amino acid.
<b>Contents</b>	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .

## Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Rat	Hu	-

**Tested Species:** In-house tested species with positive results.

**Predicted Species:** Species predicted to be fit for the product based on sequence similarities.

*Other applications have not been tested.*

*Optimal dilutions should be determined by end users.*

## Preparation and storage

**Reconstitution:** 0.2ml of distilled water will yield a concentration of 500µg/ml.

**Storage:** At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

## Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

## Background

Prostate tumor overexpressed gene 1 protein is a protein that in humans is encoded by the PTOV1 gene. It is mapped to 19q13.33. This gene encodes a protein that was found to be overexpressed in prostate adenocarcinomas. The encoded protein was found to interact with the lipid raft protein flotillin-1 and shuttle it from the cytoplasm to the nucleus in a cell cycle dependent manner. Alternative splicing of this gene results in multiple transcript variants.

## Reference

1. "Entrez Gene: PTOV1 prostate tumor overexpressed gene 1".
2. Santamaria A, Castellanos E, Gomez V, Benedit P, Renau-Piqueras J, Morote J, Reventos J, Thomson TM, Paciucci R (Feb 2005). "PTOV1 enables the nuclear translocation and mitogenic activity of flotillin-1, a major protein of lipid rafts". *Mol Cell Biol* 25 (5): 1900–11.
3. Santamaria A, Fernandez PL, Farre X, Benedit P, Reventos J, Morote J, Paciucci R, Thomson TM (Feb 2003). "PTOV-1, a novel protein overexpressed in prostate cancer, shuttles between the cytoplasm and the nucleus and promotes entry into the S phase of the cell division cycle". *Am J Pathol* 162 (3): 897–905.