

Anti-PTOV1 Antibody

Catalog # ABO12764

Product Information

Application	WB
Primary Accession	Q86YD1
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Prostate tumor-overexpressed gene 1 protein(PTOV1) detection. Tested with WB in Human;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	53635
Other Names	Prostate tumor-overexpressed gene 1 protein, PTOV-1, Activator interaction domain-containing protein 2, PTOV1, ACID2
Calculated MW	46869
Application Details	Western blot, 0.1-0.5 µg/ml, Rat, Human
Subcellular Localization	Cell membrane. Cytoplasm, perinuclear region. Nucleus. Translocates from the cytoplasm to the nucleus at the onset of S-phase. Also localizes to lipid rafts.
Tissue Specificity	Expressed in brain, heart, kidney, liver, placenta, skeletal muscle and small intestine. .
Source	Eukaryota
Protein Name	Prostate tumor-overexpressed gene 1 protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PTOV1 (385-414aa NFNVGIRRVIANQQQVLQRNLEQEQQRGM), different from the related mouse and rat sequences by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

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.
Sequence Similarities	Belongs to the Mediator complex subunit 25 family. PTOV1 subfamily.

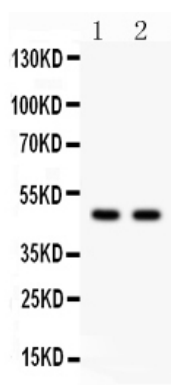
Protein Information

Name	PTOV1
Synonyms	ACID2
Function	May activate transcription. Required for nuclear translocation of FLOT1. Promotes cell proliferation.
Cellular Location	Cytoplasm. Nucleus. Cell membrane. Cytoplasm, perinuclear region. Note=Translocates from the cytoplasm to the nucleus at the onset of S-phase (PubMed:12598323). Also localizes to lipid rafts (PubMed:15713644).
Tissue Location	Expressed in brain, heart, kidney, liver, placenta, skeletal muscle and small intestine.

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.

Images



Anti- PTOV1 antibody, ABO12764, Western blotting
lanes: Anti PTOV1 (ABO12764) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Rat Kidney Tissue Lysate at 50ug
Predicted bind size: 47KD
Observed bind size: 47KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.