

PTOV1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54231

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q86YD1
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46869
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PTOV1
Epitope Specificity	61-160/416
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
SIMILARITY	Belongs to the parathyroid hormone family.
SUBUNIT	Interacts with PTH1R (via N-terminal extracellular domain).
DISEASE	Defects in PTH are a cause of familial isolated hypoparathyroidism (FIH) [MIM:146200]; also called autosomal dominant hypoparathyroidism or autosomal dominant hypocalcemia. FIH is characterized by hypocalcemia and hyperphosphatemia due to inadequate secretion of parathyroid hormone. Symptoms are seizures, tetany and cramps. FIH exist both as autosomal dominant and recessive forms of hypoparathyroidism.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PTOV1 belongs to the Mediator complex subunit 25 family, PTOV1 subfamily. It may activate transcription and is required for nuclear translocation of FLOT1. PTOV1 promotes cell proliferation. There are three named isoforms.

Additional Information

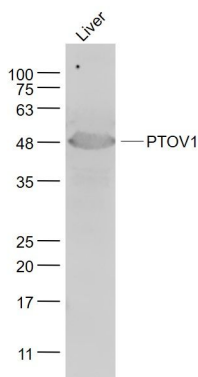
Gene ID	53635
Other Names	Prostate tumor-overexpressed gene 1 protein, PTOV-1, Activator interaction domain-containing protein 2, PTOV1, ACID2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

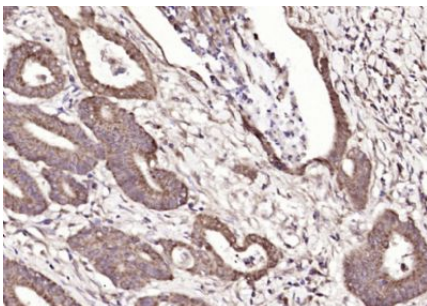
Name	PTOV1
Synonyms	ACID2
Function	May activate transcription. Required for nuclear translocation of FLOT1. Promotes cell proliferation.
Cellular Location	Cytoplasm. Nucleus. Cell membrane. Cytoplasm, perinuclear region. Note=Translocates from the cytoplasm to the nucleus at the onset of S-phase (PubMed:12598323).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

Images

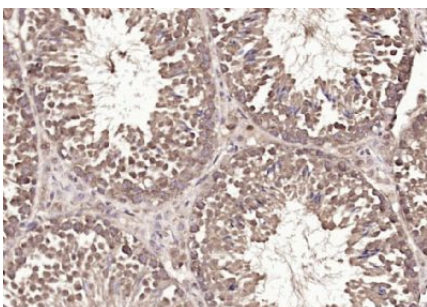


Sample:

Liver (Mouse) Lysate at 40 ug
Primary: Anti- PTOV1 (AP54231) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 47 kD
Observed band size: 48 kD

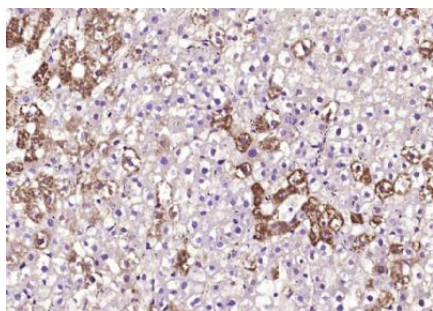


Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PTOV1) Polyclonal Antibody, Unconjugated (AP54231) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PTOV1) Polyclonal Antibody, Unconjugated (AP54231) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer



(pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PTOV1) Polyclonal Antibody, Unconjugated (AP54231) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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