

## Product datasheet for **TA324079**

### PTP4A2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Hela, Jurkat and SKOV3 cells IHC: 25-100 Positive control: Human colon cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 2-164 amino acids of human protein tyrosine phosphatase type IVA, member 2
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	19 kDa
Gene Name:	protein tyrosine phosphatase type IVA, member 2
Database Link:	<a href="#">NP_001182029</a> <a href="#">Entrez Gene 19244 Mouse</a> <a href="#">Entrez Gene 85237 Rat</a> <a href="#">Entrez Gene 8073 Human</a> <a href="#">Q12974</a>



[View online »](#)

**Background:**

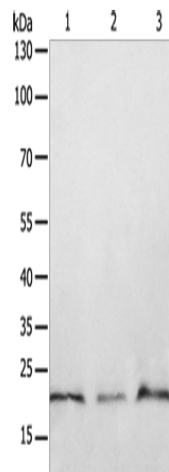
The protein encoded by this gene belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. PTPs in this class contain a protein tyrosine phosphatase catalytic domain and a characteristic C-terminal prenylation motif. This PTP has been shown to primarily associate with plasmic and endosomal membrane through its C-terminal prenylation. This PTP was found to interact with the beta-subunit of Rab geranylgeranyltransferase II (beta GGT II), and thus may function as a regulator of GGT II activity. Overexpression of this gene in mammalian cells conferred a transformed phenotype, which suggested its role in tumorigenesis. Alternatively spliced transcript variants have been described. Related pseudogenes exist on chromosomes 11, 12 and 17.

**Synonyms:**

HH7-2; HH13; HU-PP-1; OV-1; PRL-2; PRL2; ptp-IV1a; ptp-IV1b; PTP4A; PTPCAAX2

**Protein Families:**

Druggable Genome, Phosphatase

**Product images:**

Gel: 10%SDS-PAGE

Lysate: 50 µg

Lane 1-3: Hela cells

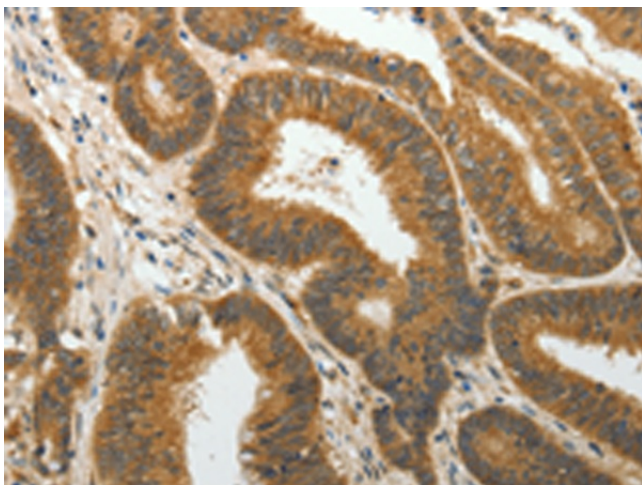
Jurkat cells

SKOV3 cells

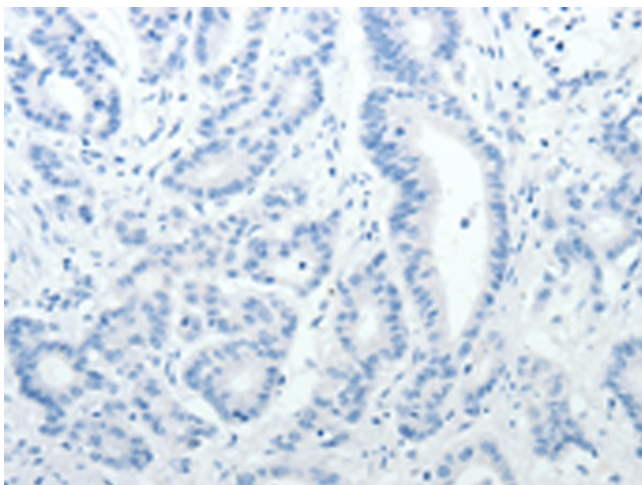
Primary antibody: TA324079 (PTP4A2 Antibody)  
at dilution 1/300

Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution

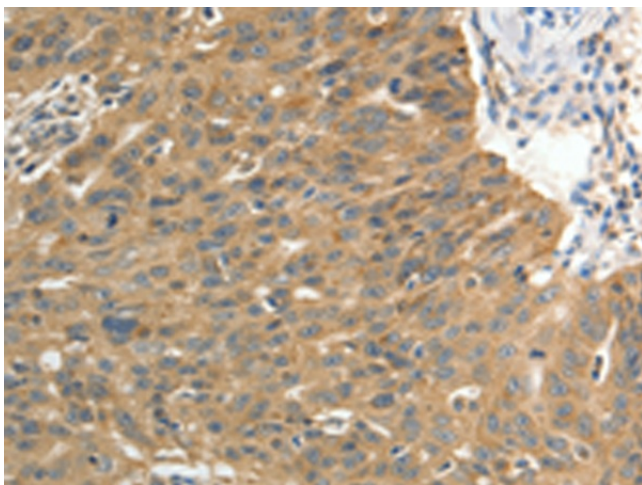
Exposure time: 30 seconds



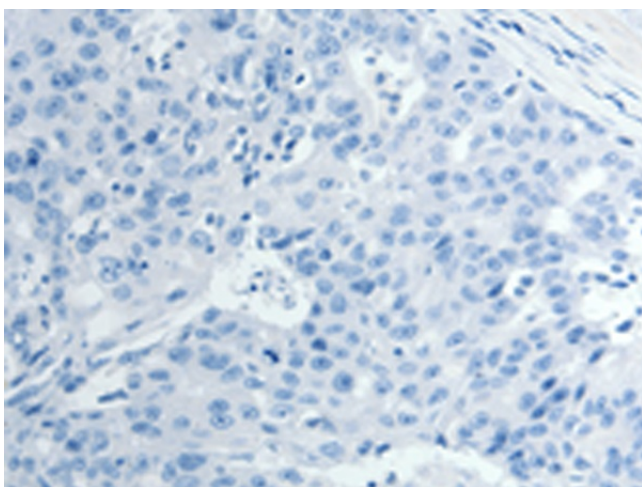
Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA324079 (PTP4A2 Antibody) at dilution 1/25 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA324079 (PTP4A2 Antibody) at dilution 1/25, treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA324079 (PTP4A2 Antibody) at dilution 1/25 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA324079 (PTP4A2 Antibody) at dilution 1/25, treated with fusion protein. (Original magnification: ×200)