

## Product datasheet for **TA368981**

### PIP5K1 beta (PIP5K1B) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 50-200 Positive control: Human thyroid cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human PIP5K1B
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C.
Stability:	1 year
Gene Name:	phosphatidylinositol-4-phosphate 5-kinase type 1 beta
Database Link:	<a href="#">Entrez Gene 8395 Human</a> <a href="#">O14986</a>



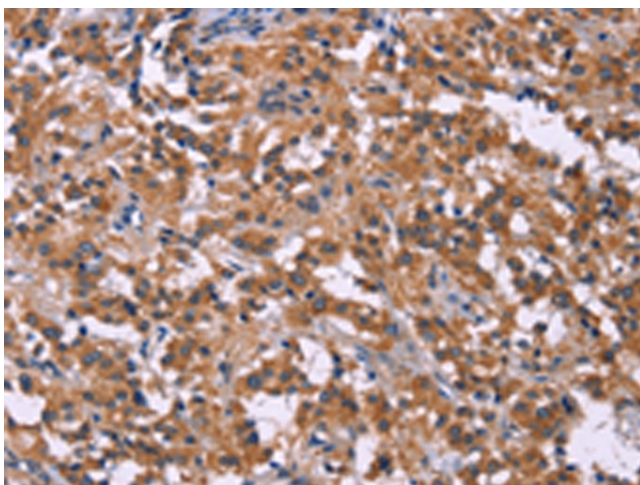
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**Background:**

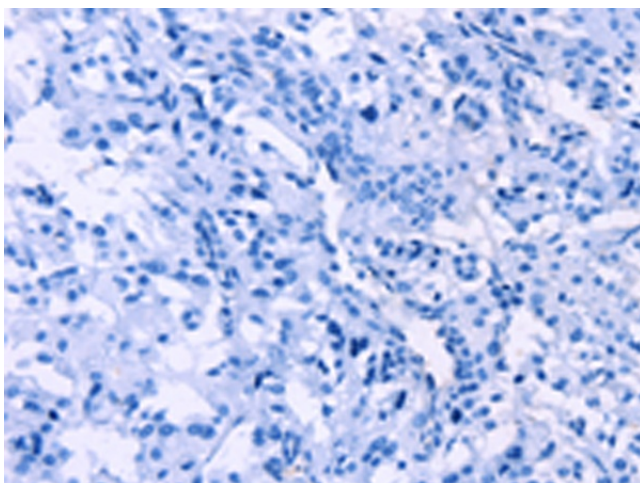
Phosphatidylinositol-4-phosphate-5-kinase (PIP5K) synthesizes phosphatidylinositol-4,5-bisphosphate, which regulates various processes including cell proliferation, survival, membrane trafficking, and cytoskeletal organization. The PIP5K family is divided into type I, type II and type III. Each type of the PIP5K family phosphorylate distinct substrates and they contain an activation loop, which determines their enzymatic specificity and subcellular targeting. The phosphatidylinositol-4-phosphate-5-kinase type I consists of three members, PIP5K I  $\alpha$ ,  $\beta$ , and  $\gamma$ , which are characterized by phosphorylating PI4P on the 5-hydroxyl. PIP5K I  $\alpha$  (designated PIP5K I  $\beta$  in mouse) is expressed in brain tissue. PIP5K I  $\beta$ , designated PIP5K I  $\alpha$  in mouse, is also called STM7. PIP5K I  $\gamma$  has two variants produced by alternative splicing which are expressed in lung, brain, and kidneys.

**Synonyms:**

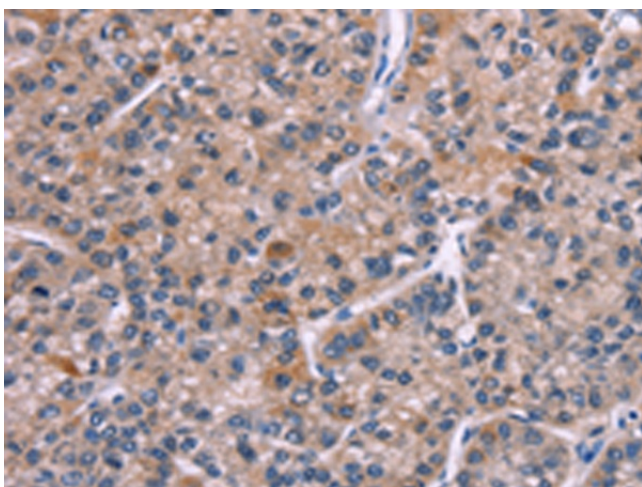
MSS4; OTTHUMP00000021423; PIP5K1beta; STM7

**Product images:**

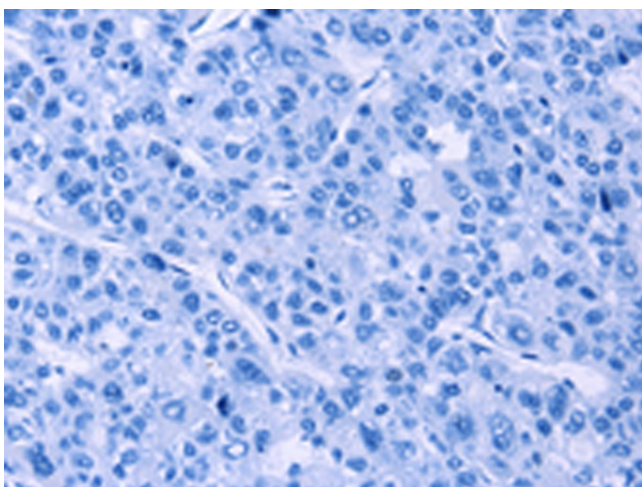
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA368981 (PIP5K1B Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA368981 (PIP5K1B Antibody) at dilution 1/30, treated with fusion protein. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA368981 (PIP5K1B Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA368981 (PIP5K1B Antibody) at dilution 1/30, treated with fusion protein. (Original magnification:  $\times 200$ )