

## PIP5K1B RABBIT PAB

**Cat.#:** S217159

**Product Name:** Anti-PIP5K1B Rabbit Polyclonal Antibody

**Synonyms:** MSS4; STM7

**UNIPROT ID:** O14986 (Gene Accession - BC030587 )

**Background:** Phosphatidylinositol-4-phosphate-5-kinase (PIPK) synthesizes phosphatidylinositol-4,5-bisphosphate, which regulates various processes including cell proliferation, survival, membrane trafficking, and cytoskeletal organization. The PIPK family is divided into type I, type II and type III . Each type of the PIPK 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, PIPK I $\alpha$ ,  $\beta$ , and  $\gamma$ , which are characterized by phosphorylating PI4P on the 5-hydroxyl . PIPK I $\alpha$  (designated PIPK I $\beta$  in mouse) is expressed in brain tissue . PIPK I $\beta$ , designated PIPK I $\alpha$  in mouse, is also called STM7. PIPK I $\gamma$  has two variants produced by alternative splicing which are expressed in lung, brain, and kidneys.

**Immunogen:** Fusion protein of human PIP5K1B

**Applications:** ELISA, IHC

**Recommended Dilutions:** IHC: 50-200; ELISA: 2000-5000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

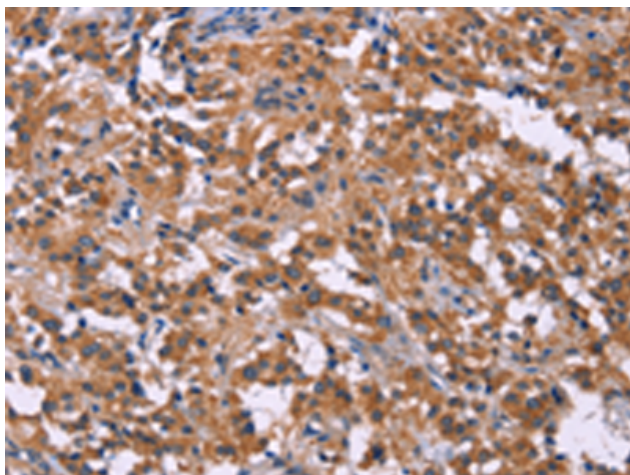
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Mouse, Rat

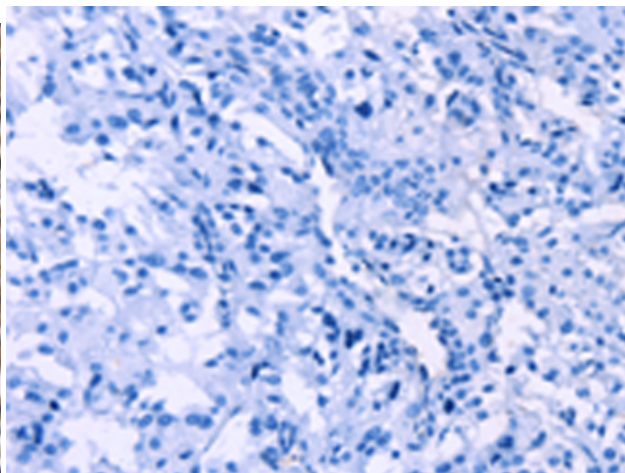
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Signal Transduction

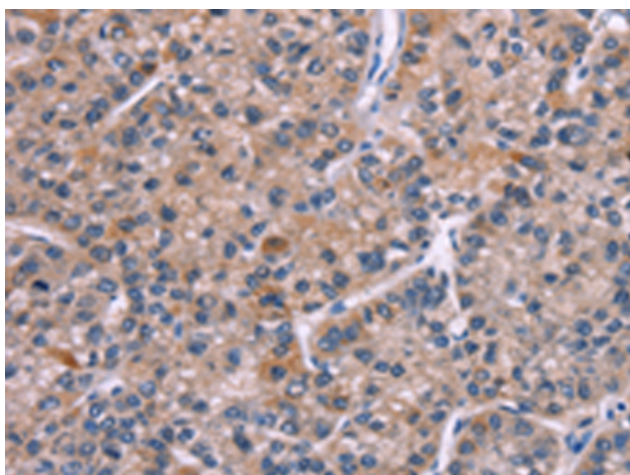
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



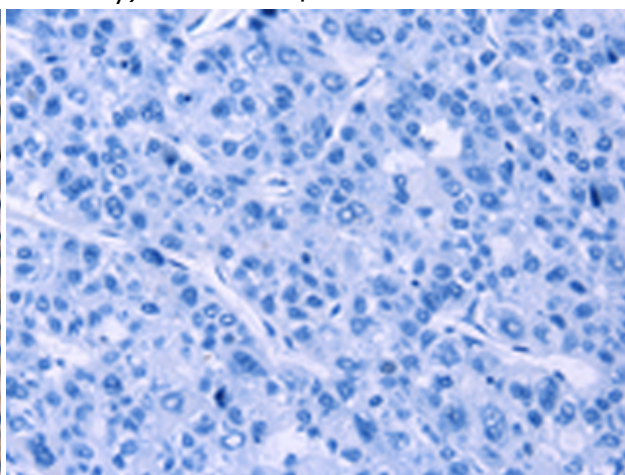
Immunohistochemistry analysis of paraffin embedded Human thyroid cancer tissue using 217159(PIP5K1B Antibody) at a dilution of 1/30(Cytoplasm).



In comparison with the IHC on the left, the same paraffin-embedded Human thyroid cancer tissue is first treated with the fusion protein and then with 217159(Anti-PIP5K1B Antibody) at dilution 1/30.



The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using 217159(Anti-PIP5K1B Antibody) at a dilution of 1/30.



In comparison with the IHC on the left, the same paraffin-embedded Human liver cancer tissue is first treated with fusion protein and then with D221896(Anti-PIP5K1B Antibody) at dilution 1/30.