

**Mouse Ptk6 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14924a**

**Specification**

**Mouse Ptk6 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q64434</a>
Other Accession	<a href="#">NP_033210.1</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	51972
Antigen Region	1-28

**Mouse Ptk6 Antibody (N-term) - Additional Information**

**Gene ID** 20459

**Other Names**

Protein-tyrosine kinase 6, SRC-related intestinal kinase, Ptk6, Sik

**Target/Specificity**

This Mouse Ptk6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-28 amino acids from the N-terminal region of mouse Ptk6.

**Dilution**

WB~~1:1000

**Format**

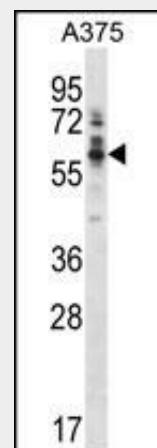
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

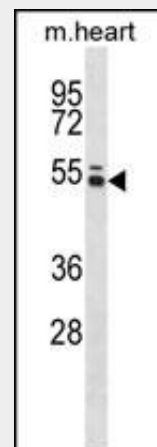
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Mouse Ptk6 Antibody (N-term) is for research use only and not for use in



Mouse Ptk6 Antibody (N-term) (Cat. #AP14924a) western blot analysis in A375 cell line lysates (35ug/lane). This demonstrates the Ptk6 antibody detected the Ptk6 protein (arrow).



Mouse Ptk6 Antibody (N-term) (Cat. #AP14924a) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the Ptk6 antibody detected the Ptk6 protein (arrow).

**Mouse Ptk6 Antibody (N-term) - Background**

Phosphorylates KHDRBS2, KHDRBS3 and STAP2/BKS (By similarity). Phosphorylates

diagnostic or therapeutic procedures.

#### **Mouse Ptk6 Antibody (N-term) - Protein Information**

**Name** Ptk6

**Synonyms** Sik

#### **Function**

Non-receptor tyrosine-protein kinase implicated in the regulation of a variety of signaling pathways that control the differentiation and maintenance of normal epithelia, as well as tumor growth. Function seems to be context dependent and differ depending on cell type, as well as its intracellular localization. A number of potential nuclear and cytoplasmic substrates have been identified. These include the RNA-binding proteins: KHDRBS1/SAM68, KHDRBS2/SLM1, KHDRBS3/SLM2 and SFPQ/PSF; transcription factors: STAT3 and STAT5A/B and a variety of signaling molecules: ARHGAP35/p190RhoGAP, PXN/paxillin, BTK/ATK, STAP2/BKS. Associates also with a variety of proteins that are likely upstream of PTK6 in various signaling pathways, or for which PTK6 may play an adapter-like role. These proteins include ADAM15, EGFR, ERBB2, ERBB3 and IRS4. In normal or non-tumorigenic tissues, PTK6 promotes cellular differentiation and apoptosis. In tumors PTK6 contributes to cancer progression by sensitizing cells to mitogenic signals and enhancing proliferation, anchorage-independent survival and migration/invasion. Association with EGFR, ERBB2, ERBB3 may contribute to mammary tumor development and growth through enhancement of EGF-induced signaling via BTK/AKT and PI3 kinase. Contributes to migration and proliferation by contributing to EGF-mediated phosphorylation of ARHGAP35/p190RhoGAP, which promotes association with RASA1/p120RasGAP, inactivating RhoA while activating RAS. EGF stimulation resulted in phosphorylation of PN/Paxillin by PTK6 and activation of RAC1 via CRK/CrKII, thereby promoting migration and invasion. PTK6 activates STAT3 and STAT5B to promote proliferation. Nuclear PTK6 may be important for regulating growth in normal epithelia, while cytoplasmic PTK6 might activate oncogenic

KHDRBS1. May function as an intracellular signal transducer in epithelial tissues.

#### **Mouse Ptk6 Antibody (N-term) - References**

Zheng, Y., et al. Mol. Cell. Biol. 30(17):4280-4292(2010)  
Palka-Hamblin, H.L., et al. J. Cell. Sci. 123 (PT 2), 236-245 (2010) :  
Xiang, B., et al. Proc. Natl. Acad. Sci. U.S.A. 105(34):12463-12468(2008)  
Whitehead, R.H., et al. J. Gastroenterol. Hepatol. 23 (7 PT 1), 1119-1124 (2008) :  
Haegebarth, A., et al. Mol. Cell. Biol. 26(13):4949-4957(2006)

signaling pathways.

**Cellular Location**

Cytoplasm. Nucleus. Membrane. Cell projection, ruffle. Note=Also found to be membrane-associated Colocalizes with KHDRBS1, within the nucleus

**Tissue Location**

Expressed only in epithelial tissues, including the skin and lining of the alimentary canal. Restricted to the cell layers immediately above the proliferative cell zone in these epithelia

**Mouse Ptk6 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)