



# PI51A mouse mAb

<b>Catalog No</b>	BYmab-07985
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Mouse
<b>Applications</b>	WB
<b>Gene Name</b>	PIP5K1A
<b>Protein Name</b>	PI51A
<b>Immunogen</b>	Synthesized peptide derived from human PI51A AA range: 270-320
<b>Specificity</b>	This antibody detects endogenous levels of PI51A at Human/Mouse
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.99% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	Phosphatidylinositol 4-phosphate 5-kinase type-1 alpha (PIP5K1-alpha) (PtdIns(4)P-5-kinase 1 alpha) (EC 2.7.1.68) (68 kDa type I phosphatidylinositol 4-phosphate 5-kinase alpha) (Phosphatidylinositol 4-phosphate 5-kinase type I alpha) (PIP5KIalpha)
<b>Observed Band</b>	60kD
<b>Cell Pathway</b>	Cell membrane . Cytoplasm . Nucleus . Nucleus speckle . Cell projection, ruffle . Cell projection, lamellipodium . Colocalizes with RAC1 at actin-rich membrane ruffles (PubMed:20660631). Localizes to nuclear speckles and associates with TUT1 to regulate polyadenylation of selected mRNAs (PubMed:18288197). .
<b>Tissue Specificity</b>	Highly expressed in heart, placenta, skeletal muscle, kidney and pancreas. Detected at lower levels in brain, lung and liver.
<b>Function</b>	catalytic activity:ATP + 1-phosphatidyl-1D-myo-inositol 4-phosphate = ADP + 1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate.,function:Participates in the biosynthesis of phosphatidylinositol-4,5-bisphosphate. Mediates RAC1-dependent reorganization of actin filaments. Contributes to the activation of PLD2.,similarity:Contains 1 PI5K domain.,subcellular location:Associated with the plasma membrane and with internal membranes. Associated with Golgi stacks

**Nanjing BYabscience technology Co.,Ltd**



(By similarity). Detected on RAC1-induced plasma membrane ruffles, and on membrane ruffles induced by platelet-derived growth factor., subunit: Interacts with ARF1, RAC1, PLD1, PLD2 and JUB., tissue specificity: Highly expressed in heart, placenta, skeletal muscle, kidney and pancreas. Detected at lower levels in brain, lung and liver.,

## Background

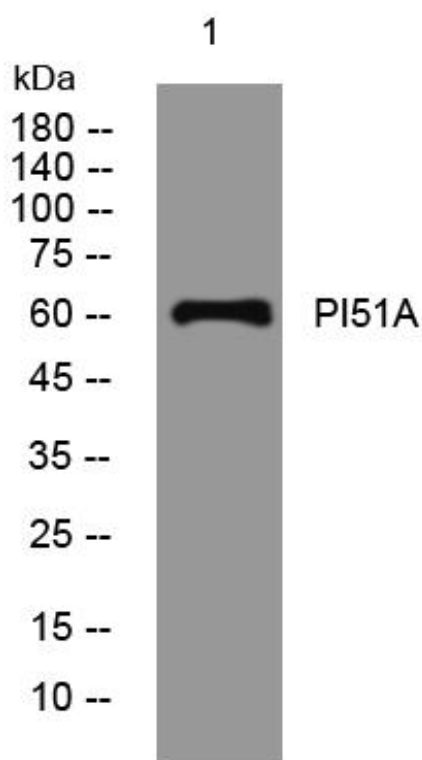
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using PI51A mouse mAb