

Rabbit Anti-PIP5KL1 antibody

SL0451R

Product Name PIP5KL1

Chinese Name 4-磷酸磷脂酰肌醇 5 激酶 1 样蛋白抗体

Alias bA203J24.5; EC 2.7.1.68; MGC46424; phosphatidylinositol 4 phosphate 5 kinase like 1; phosphatidylinositol phosphate kinase homolog; Phosphatidylinositol-4-phosphate 5-kinase-like protein 1; PI(4)P 5 kinase like protein 1; PI(4)P 5-kinase-like protein 1; PI5L1_HUMAN; PIP5KL1; PIPKH; PtdIns(4)P 5 kinase like protein 1; PtdIns(4)P-5-kinase-like protein 1.

Research Area Tumour Cell biology Signal transduction Cytoskeleton

Immunogen Species Rabbit

Clonality Polyclonal

React Species Mouse, Rat, (predicted: Human, Dog, Cow, Horse, Rabbit,)

Applications IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 45kDa

Cellular localization cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human PIP5KL1: 101-220/394

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic

or diagnostic applications.

PubMed

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PIPKH, also known as PIP5KL1 (phosphatidylinositol-4-phosphate 5-kinase-like 1), is a 394 amino acid phosphoinositide kinase-like protein that contains one PIPK domain. Although PIPKH lacks intrinsic lipid kinase activity, it associates with type I PIPKs and may play a role in localization of PIPK activity. Encoded by a gene that maps to human chromosome 9q34.11, PIPKH localizes to cytoplasm, specifically to large cytoplasmic vesicular structures, and exists as two alternatively spliced isoforms. Highly expressed in brain and testis, PIPKH is also expressed at very low levels in heart, spleen, lung, liver, skeletal muscle and kidney. PIPKH heterodimerizes with other type I phosphatidylinositol-4-phosphate 5-kinases, and may function as a scaffold to localize and regulate kinases to specific cell compartments. Overexpression of PIPKH may suppress cell proliferation and migration in human gastric cancer cells and may also inhibit cervical cancer formation.

Function:

May act as a scaffold to localize and regulate type I PI(4)P 5-kinases to specific compartments within the cell, where they generate PI(4,5)P₂ for actin nucleation, signaling and scaffold protein recruitment and conversion to PI(3,4,5)P₃.

Subunit:

Heterodimerizes with other type I phosphatidylinositol 4-phosphate 5-kinase.

**Product
Detail**

Subcellular Location:

Cytoplasm. Membrane. Note=Localized to large cytoplasmic vesicular structures.

Similarity:

Contains 1 PIPK domain.

SWISS:

Q5T9C9

Gene ID:

138429

Database links:

[Entrez Gene: 138429](#) Human

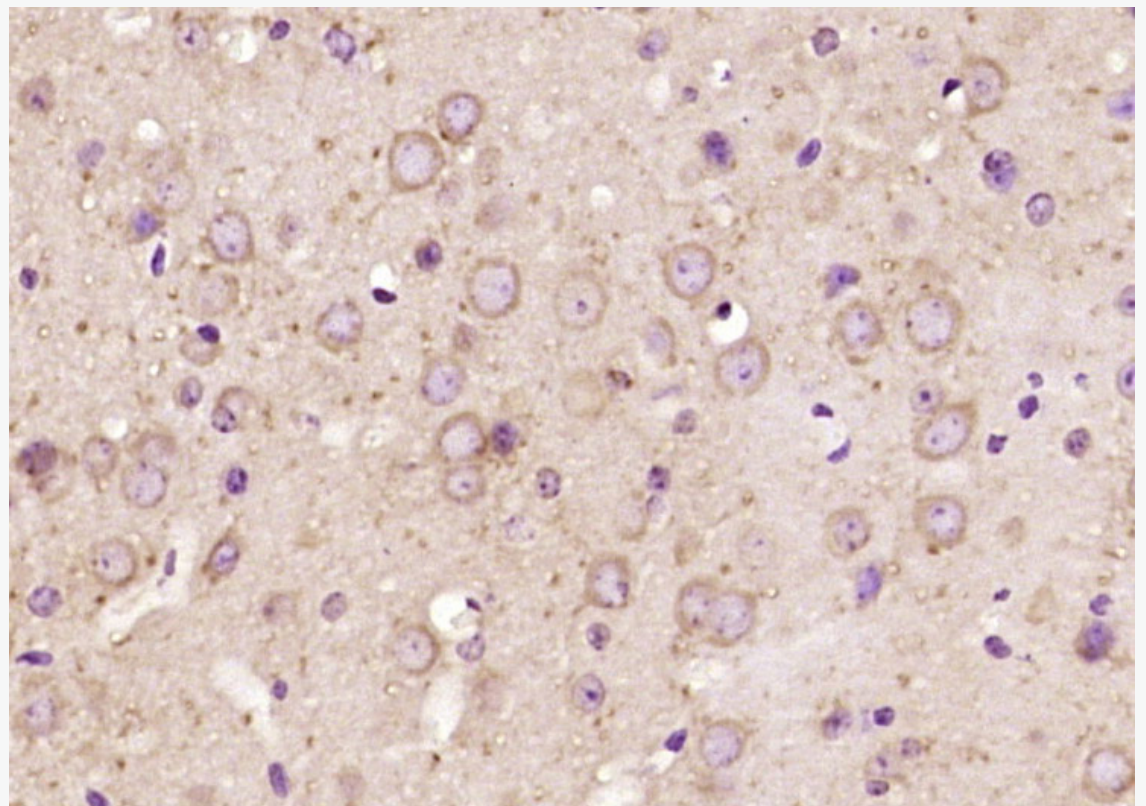
[Omim: 612865](#) Human

[SwissProt: Q5T9C9](#) Human

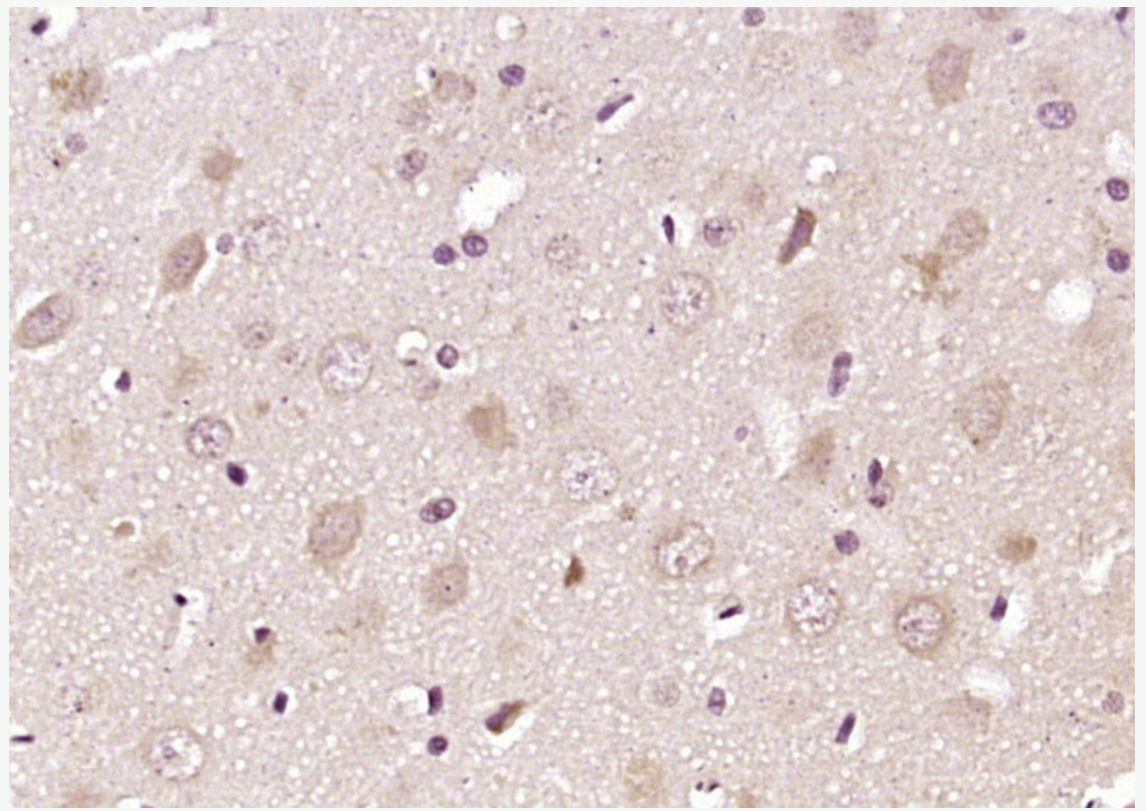
[Unigene: 445486](#) Human

[Unigene: 734928](#) Human

**Product
Picture**



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PIP5KL1) Polyclonal Antibody, Unconjugated (SL0451R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PIP5KL1) Polyclonal Antibody, Unconjugated (SL0451R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.