

PIPKH (K-16): sc-165251

BACKGROUND

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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PIP5KL1 (human) mapping to 9q34.11; Pip5k11 (mouse) mapping to 2 B.

SOURCE

PIPKH (K-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PIPKH of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165251 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PIPKH (K-16) is recommended for detection of PIPKH of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PIPKH (K-16) is also recommended for detection of PIPKH in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PIPKH siRNA (h): sc-92473, PIPKH siRNA (m): sc-152269, PIPKH shRNA Plasmid (h): sc-92473-SH, PIPKH shRNA Plasmid (m): sc-152269-SH, PIPKH shRNA (h) Lentiviral Particles: sc-92473-V and PIPKH shRNA (m) Lentiviral Particles: sc-152269-V.

Molecular Weight of PIPKH isoforms: 45/22 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.