

MAP17 (I-15): sc-27375

BACKGROUND

MAP17, also known as small PDZK1-associated protein (SPAP) and DD96, exists as a non-glycosylated membrane protein associated with various human carcinomas. MAP17 is also expressed in the proximal tubules of the kidney cortex and in the spermatids of the seminiferous tubules. MAP17 interacts with PDZK1, associates with the N-terminus of NaPi-IIa within the PDZK1/NaPi-IIa/MAP17 complex, and acts as an apical anchoring site for PDZK1.

REFERENCES

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- Kocher, O., et al. 1998. Identification and partial characterization of PDZK1: a novel protein containing PDZ interaction domains. *Lab Invest.* 78: 117-125.
- Kocher, O., et al. 1999. PDZK1, a novel PDZ domain-containing protein upregulated in carcinomas and mapped to chromosome 1q21, interacts with cMOAT (MRP2), the multidrug resistance-associated protein. *Lab Invest.* 79: 1161-1170.
- Pribanic, S., et al. 2003. Interactions of MAP17 with the NaPi-IIa/PDZK1 protein complex in renal proximal tubular cells. *Am. J. Physiol. Renal. Physiol.* 285: 784-791.
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- Silver, D.L., et al. 2003. Identification of small PDZK1-associated protein, DD96/MAP17, as a regulator of PDZK1 and plasma high density lipoprotein levels. *J. Biol. Chem.* 278: 28528-28532.
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CHROMOSOMAL LOCATION

Genetic locus: PDZK1IP1 (human) mapping to 1p33; Pdzk1ip1 (mouse) mapping to 4 D1.

SOURCE

MAP17 (I-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MAP17 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-27375 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MAP17 (I-15) is recommended for detection of MAP17 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).

MAP17 (I-15) is also recommended for detection of MAP17 in additional species, including equine, canine, bovine and porcine.

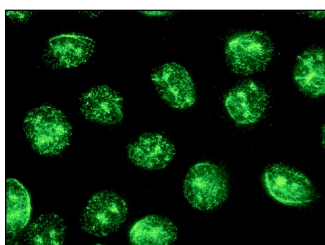
Suitable for use as control antibody for MAP17 siRNA (h): sc-72180, MAP17 siRNA (m): sc-72181, MAP17 shRNA Plasmid (h): sc-72180-SH, MAP17 shRNA Plasmid (m): sc-72181-SH, MAP17 shRNA (h) Lentiviral Particles: sc-72180-V and MAP17 shRNA (m) Lentiviral Particles: sc-72181-V.

Molecular Weight of MAP17: 12-17 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.

DATA



MAP17 (I-15): sc-27375. Immunofluorescence staining of methanol-fixed HeLa cells showing membrane localization.

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.