

PRICKLE1 Antibody

Catalog # ASC11399

Product Information

Application WB, IF, E Primary Accession Q96MT3

Other Accession NP_694571, 222136684
Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype IgG
Calculated MW 94300
Concentration (mg/ml) 1 mg/mL
Conjugate Unconjugated

Application Notes PRICKLE1 antibody can be used for detection of PRICKLE1 by Western blot at

1 Ig/mL. Antibody can also be used for immunofluorescence starting at 20

□g/mL. For immunofluorescence start at 20 □g/mL.

Additional Information

Gene ID 144165

Other Names Prickle-like protein 1, REST/NRSF-interacting LIM domain protein 1, PRICKLE1,

RILP

Target/Specificity PRICKLE1; Multiple isoforms of PRICKLE1 are known to exist. PRICKLE1

antibody is predicted to not cross-react with other PRICKLE protein family

members.

Reconstitution & Storage PRICKLE1 antibody can be stored at 4°C for three months and -20°C, stable

for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged

high temperatures.

Precautions PRICKLE1 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name PRICKLE1

Synonyms RILP

Function Involved in the planar cell polarity pathway that controls convergent

extension during gastrulation and neural tube closure. Convergent extension is a complex morphogenetic process during which cells elongate, move mediolaterally, and intercalate between neighboring cells, leading to convergence toward the mediolateral axis and extension along the

anteroposterior axis. Necessary for nuclear localization of REST. May serve as

nuclear receptor.

Cellular Location Nucleus membrane. Cytoplasm, cytosol. Note=A smaller amount is detected

in the cytosol

Tissue Location Expressed at highest levels in placenta and at lower levels in lung, liver, kidney

and pancreas. Expressed in thalamus, hippocampus, cerebral cortex, and

cerebellum (in neurons rather than glia).

Background

PRICKLE1 Antibody: PRICKLE1, also known as RILP or EPM1B, is a Disheveled-associated protein that serves as a nuclear translocation receptor for REST/NRSF and REST4 (1, 2). It contains three N-terminal LIM domains and three C-terminal nuclear localization signals. It localizes to the cytoplasm, as well as to the nuclear membrane and expressed at higher levels in placenta. PRICKLE1 is a negative regulator of the Wnt / beta-catenin signaling pathway and is a putative tumor suppressor in human HCCs. Defects in the gene encoding PRICKLE1 are associated with autosomal recessive progressive myoclonic epilepsy.

References

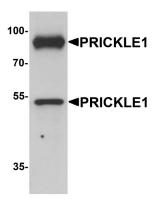
Katoh M and Katoh M. Identification and characterization of human PRICKLE1 and PRICKLE2 genes as well as mouse Prickle1 and Prickle2 genes homologous to Drosophila tissue polarity gene prickle. Int. J. Mol. Med. 2003; 11:249-56

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Chan DW, Chan CY, Yam JW, et al. Prickle1 negatively regulates Wnt/β-catenin pathway by promoting Disheveled ubiquitination/degradation in liver cancer. Gastroenterology 2006; 131:1218-27.

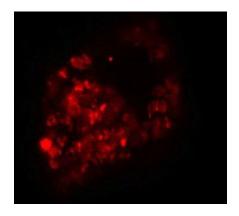
Tao H, Manak JR, Sowers L, et al. Mutations in prickle orthologs cause seizures in flies, mice, and humans. Am. J. Hum. Genet. 2011; 88:138-49.

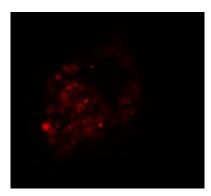
Images



Western blot analysis of PRICKLE1 in human bladder tissue lysate with PRICKLE1 antibody at 1 µg/mL.

Immunofluorescence of PRICKLE1 in human bladder cells with PRICKLE1 antibody at 20 μ g/mL.





Immunofluorescence of PRICKLE1 in Human Bladder tissue with PRICKLE1 antibody at 20 $\mu g/mL$

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.