

**PRICKLE2 Antibody**  
**Catalog # ASC11400****Specification**

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**PRICKLE2 Antibody - Product Information**

Application	WB, IF, E
Primary Accession	<a href="#">Q7Z3G6</a>
Other Accession	<a href="#">NP_942559</a> , <a href="#">38524620</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	PRICKLE2 antibody can be used for detection of PRICKLE2 by Western blot at 1 µg/mL. Antibody can also be used for immunofluorescence starting at 20 µg/mL. For immunofluorescence start at 20 µg/mL.

**PRICKLE2 Antibody - Additional Information**

Gene ID **166336**

**Target/Specificity**

PRICKLE2; Two isoforms of PRICKLE2 are known to exist. PRICKLE2 antibody is predicted to not cross-react with other PRICKLE protein family members.

**Reconstitution & Storage**

PRICKLE2 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**

PRICKLE2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**PRICKLE2 Antibody - Protein Information**

**Name** PRICKLE2

**Cellular Location**

Nucleus membrane.

**Tissue Location**

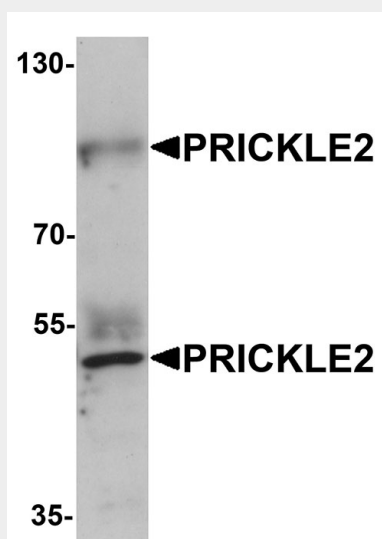
Expressed in brain, eye and testis. Additionally in fetal brain, adult cartilage, pancreatic islet, gastric cancer and uterus tumors.

**PRICKLE2 Antibody - Protocols**

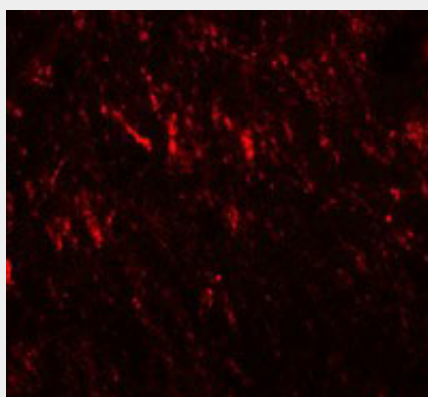
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **PRICKLE2 Antibody - Images**



Western blot analysis of PRICKLE2 in A-20 lysate with PRICKLE2 antibody at 1 µg/mL.



Immunofluorescence of PRICKLE2 in rat brain cells with PRICKLE2 antibody at 20 µg/mL.

#### **PRICKLE2 Antibody - Background**

**PRICKLE2 Antibody:** PRICKLE2, also known as Pk2 or EPM5, is a member of a highly conserved protein family that function in the noncanonical WNT signaling pathway which regulates intracellular calcium release and planar cell polarity. Both PRICKLE2 and the related protein PRICKLE1 are expressed in postmitotic neurons and promote neurite outgrowth, and both proteins promote neurite outgrowth via the Dishevelled dependent pathway in C1300 cells. PRICKLE2 localizes to the postsynaptic density and interacts with PSD-95 and NMDA receptors. Defects in the gene encoding PRICKLE2 are associated with autosomal recessive progressive myoclonic epilepsy.

**PRICKLE2 Antibody - 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.

Veeman MT, Slusarski DC, Kaykas A, et al. Zebrafish prickle, a modulator of noncanonical Wnt/Fz signaling, regulates gastrulation movements. *Curr. Biol.* 2003; 13:680-5.

Okuda H, Miyata S, Mori Y, et al. Mouse Prickle1 and Prickle2 are expressed in postmitotic neurons and promote neurite outgrowth. *FEBS Lett.* 2007; 581:4754-60

Fujimura L, Watanabe-Takano H, Sato Y, et al. Prickle promotes neurite outgrowth via the Dishevelled dependent pathway in C1300 cells. *Neurosci. Lett.* 2009; 467:6-10.