

PRICKLE4 Antibody

Catalog # ASC11401

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q2TBC4
Other Accession	NP_037529 , 118722347
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	37551
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	PRICKLE4 antibody can be used for detection of PRICKLE4 by Western blot at 0.25 µg/mL. Antibody can also be used for immunocytochemistry starting at 5 µg/mL. For immunofluorescence start at 5 µg/mL.

Additional Information

Gene ID	29964
Other Names	Prickle-like protein 4, Overexpressed breast tumor protein, PRICKLE4, C6orf49, OEBT
Target/Specificity	PRICKLE4; Two isoforms of PRICKLE4 are known to exist. PRICKLE4 antibody is predicted to not cross-react with other PRICKLE protein family members.
Reconstitution & Storage	PRICKLE4 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	PRICKLE4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRICKLE4
Synonyms	C6orf49, OEBT
Tissue Location	Expressed in a broad range of normal tissues as well as in hepatocellular carcinoma, breast cancer and prostate cancer tissues.

Background

PRICKLE4 Antibody: PRICKLE4, also known as over-expressed breast tumor protein (OBTP), is a member of the LIM family of proteins. It possesses two LIM domains as well as a PET domain and is thought to localize to the nucleus. Its expression in multiple malignant tissue differentiations indicate that it may play a role in cancer differentiation. Two other members of the LIM family, PRICKLE1 and PRICKLE2, are thought to function in the noncanonical WNT signaling pathway which regulates intracellular calcium release and planar cell polarity, suggesting the PRICKLE4 may play a similar role.

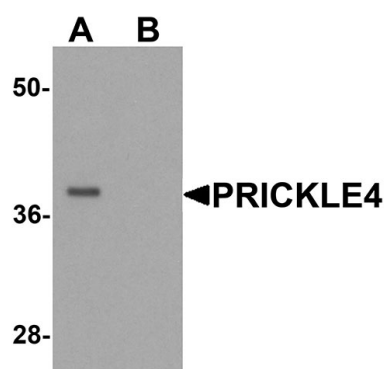
References

Teufel A, Weinmann A, Galle PR, et al. Characterization of OEBC, a LIM protein. *Int. J. Mol. Med.* 2005; 15:513-8.

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

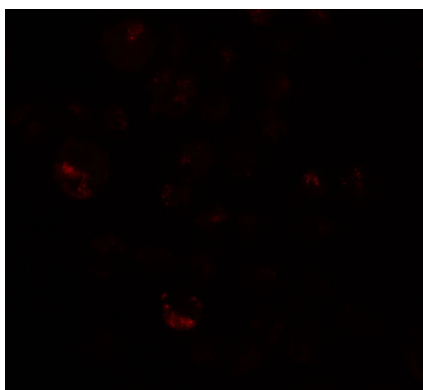
Images



Western blot analysis of PRICKLE4 in A549 cell lysate with PRICKLE4 antibody at 0.25 $\mu\text{g}/\text{ml}$ in the (A) absence and (B) presence of blocking peptide.



Immunocytochemistry of PRICKLE4 in A549 cells with PRICKLE4 antibody at 5 $\mu\text{g}/\text{mL}$.



Immunofluorescence of PRICKLE4 in A549 cells with PRICKLE4 antibody at 20 $\mu\text{g}/\text{mL}$.

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