

INPP4B Antibody

Catalog # ASC11951

Product Information

Application	WB, E
Primary Accession	Q9BS68
Other Accession	NP_003857 , 156104895
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	102 KDa
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	INPP4B antibody can be used for detection of INPP4B by Western blot at 1 - 2 μ g/ml.

Additional Information

Gene ID	8821
Target/Specificity	INPP4B; INPP4B antibody is human, mouse and rat reactive. At least two isoforms of INPP4B are known to exist; this antibody only detects the longer isoform. INPP4B antibody is predicted to not cross-react with INPP4A.
Reconstitution & Storage	INPP4B antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	INPP4B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

Inositol polyphosphate 4-phosphatase type II (INPP4B) is one of the enzymes involved in phosphatidylinositol signaling pathways. It removes the phosphate group at position 4 of the inositol ring from inositol 3,4-bisphosphate (1). INPP4B can function as a tumor suppressor by inhibiting PI3K signaling. In human epithelial cells, knockdown of INPP4B expression resulted in enhanced Akt activation, anchorage-independent growth, and enhanced overall motility (2). It is thought INPP4B may also have oncogenic functions as INPP4B-dependent PI3K signaling is mediated by SGK3 in breast cancer cells and expression of INPP4B leads to enhanced SGK3 activation and suppression of AKT phosphorylation (3).

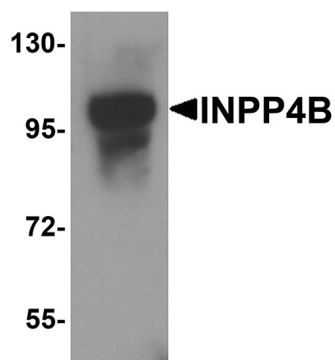
References

Norris FA, Auethavekiat V, and Majerus PW. The isolation and characterization of cDNA encoding human and rat brain inositol polyphosphate 4-phosphase. *J. Biol. Chem.* 1995; 270:16128-33.

Gewinner C, Wang ZC, Richardson A, et al. Evidence that inositol polyphosphate 4-phosphase type II is a tumor suppressor that inhibits PI3K signaling. *Cancer Cell* 2009; 16:115-25.

Gasser JA, Inuzuka H, Lau AW, et al. SGK3 mediates INPP4B-dependent PI3K signaling in breast cancer. *Mol. Cell* 2014; 56:595-607.

Images



Western blot analysis of INPP4B in 3T3 cell lysate with INPP4B antibody at 1 μ g/ml.

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