

# FIG4 Polyclonal Antibody

Catalog # AP74251

### **Product Information**

Application	WB
Primary Accession	<u>Q92562</u>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	103635

#### **Additional Information**

Gene ID	9896
Other Names	Polyphosphoinositide phosphatase (EC 3.1.3) (Phosphatidylinositol 3, 5-bisphosphate 5-phosphatase) (SAC domain-containing protein 3)
Dilution	WB~~WB 1:500-2000, ELISA 1:10000-20000
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## **Protein Information**

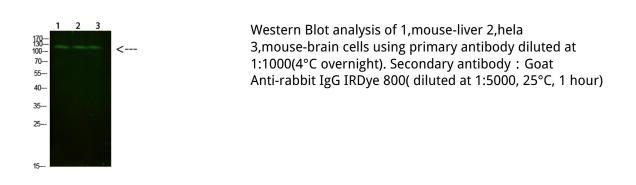
Name	FIG4 ( <u>HGNC:16873</u> )
Function	Dual specificity phosphatase component of the PI(3,5)P2 regulatory complex which regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) (PubMed: <u>17556371</u> , PubMed: <u>33098764</u> ). Catalyzes the dephosphorylation of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) to form phosphatidylinositol 3-phosphate (PubMed: <u>33098764</u> ). Has serine-protein phosphatase activity acting on PIKfyve to stimulate its lipid kinase activity, its catalytically activity being required for maximal PI(3,5)P2 production (PubMed: <u>33098764</u> ). In vitro, hydrolyzes all three D5-phosphorylated polyphosphoinositide and although displaying preferences for PtdIns(3,5)P2, it is capable of hydrolyzing PtdIns(3,4,5)P3 and PtdIns(4,5)P2, at least in vitro (PubMed: <u>17556371</u> ).
Cellular Location	Endosome membrane. Note=Localization requires VAC14 and PIKFYVE

# Background

The PI(3,5)P2 regulatory complex regulates both the synthesis and turnover of phosphatidylinositol

3,5-bisphosphate (PtdIns(3,5)P2). In vitro, hydrolyzes all three D5-phosphorylated polyphosphoinositide substrates in the order PtdIns(4,5)P2 > PtdIns(3,5)P2 > PtdIns(3,4,5)P3. Plays a role in the biogenesis of endosome carrier vesicles (ECV) / multivesicular bodies (MVB) transport intermediates from early endosomes.

#### Images



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