

FIG4 Polyclonal Antibody
Catalog # AP74251**Specification****FIG4 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	Q92562
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

FIG4 Polyclonal Antibody - 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

FIG4 Polyclonal Antibody - Protein Information**Name** FIG4 ([HGNC:16873](#))**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:17556371, PubMed:33098764). Catalyzes the dephosphorylation of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) to form phosphatidylinositol 3-phosphate (PubMed:33098764). Has serine-protein phosphatase activity acting on PIKfyve to stimulate its lipid kinase activity, its catalytic activity being required for maximal PI(3,5)P2 production (PubMed:33098764). 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:17556371).

Cellular Location

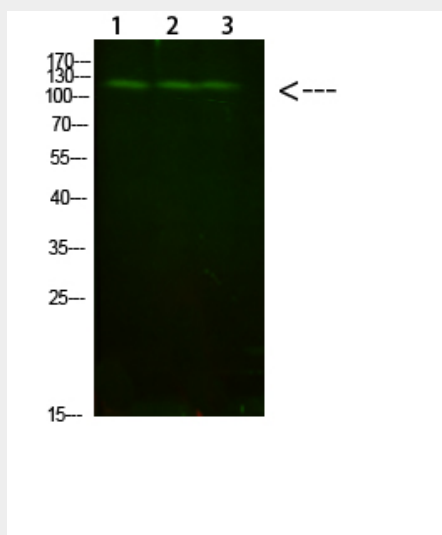
Endosome membrane. Note=Localization requires VAC14 and PIKFYVE

FIG4 Polyclonal Antibody - Protocols

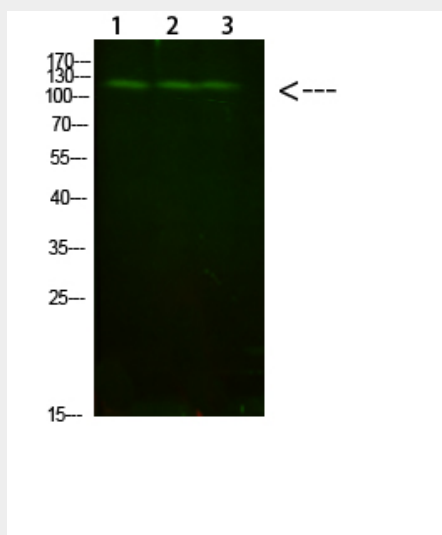
Provided below are standard protocols that you may find useful for product applications.

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

FIG4 Polyclonal Antibody - Images



Western Blot analysis of 1,mouse-liver 2,hela 3,mouse-brain cells using primary antibody diluted at 1:1000(4°C overnight). Secondary antibody □Goat Anti-rabbit IgG IRDye 800(diluted at 1:5000, 25°C, 1 hour)



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FIG4 Polyclonal Antibody - 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.