


Product datasheet

Anti-INPP4A antibody [EP3425(2)] ab109622

KO **VALIDATED** Recombinant RabMAB

★★★★★ [1 Abreviews](#) [2 References](#) [4 Images](#)

Overview

Product name	Anti-INPP4A antibody [EP3425(2)]
Description	Rabbit monoclonal [EP3425(2)] to INPP4A
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Fetal brain and Jurkat cell lysates. Human brain tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAB[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 49% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP3425(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab109622 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 104 kDa (predicted molecular weight: 110 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. (Heat to 98°C, allow to cool for 10-20 minutes)

Application notes Is unsuitable for Flow Cyt or IP.

Target

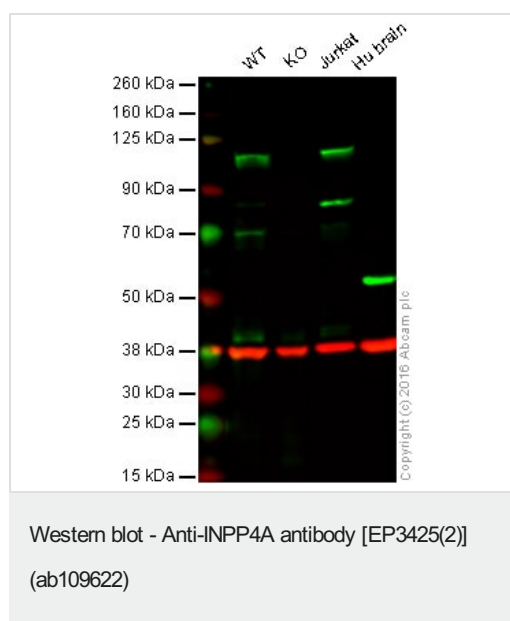
Function Catalyzes the hydrolysis of the 4-position phosphate of phosphatidylinositol 3,4-bisphosphate, inositol 1,3,4-trisphosphate and inositol 3,4-bisphosphate.

Tissue specificity Isoform 1 is expressed in the platelets, MEG-01 megakaryocytes and Jurkat T-cells. Isoform 2 is expressed in the brain.

Pathway Signal transduction; phosphatidylinositol signaling pathway.

Sequence similarities Belongs to the inositol-3,4-bisphosphate 4-phosphatase family. Contains 1 C2 domain.

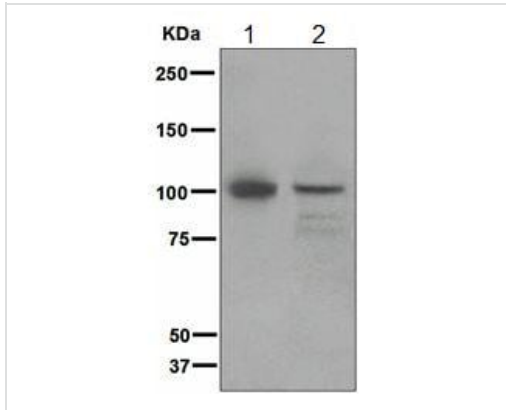
Images



Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: INPP4A knockout HAP1 cell lysate (20 µg)
Lane 3: Jurkat cell lysate (20 µg)
Lane 4: Human foetal brain tissue lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab109622 observed at 100 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab109622 was shown to specifically react with INPP4A when INPP4A knockout samples were used, along with additional cross-reactive bands. Wild-type and INPP4A knockout samples were subjected to SDS-PAGE. Ab109622 and **ab8245** (loading control to GAPDH) were diluted at 1/500 and 1/10,000 dilution respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) secondary antibodies at 1/10000 dilution for 1 hour at

room temperature before imaging.



Western blot - Anti-INPP4A antibody [EP3425(2)] (ab109622)

All lanes : Anti-INPP4A antibody [EP3425(2)] (ab109622) at 1/1000 dilution

Lane 1 : Fetal brain lysate

Lane 2 : Jurkat cell lysate

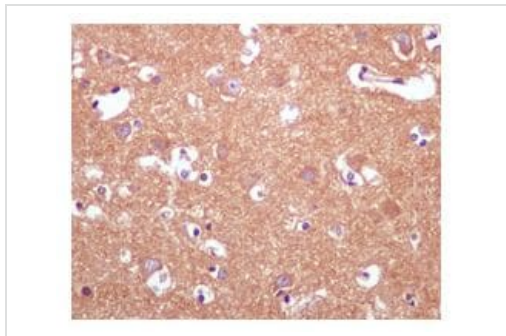
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP-labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 110 kDa

Observed band size: 104 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-INPP4A antibody [EP3425(2)] (ab109622)

ab109622 at 1/100 dilution staining INPP4A in paraffin-embedded Human brain tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Why choose a recombinant antibody?

- **Research with confidence**
Consistent and reproducible results
- **Long-term and scalable supply**
Recombinant technology
- **Success from the first experiment**
Confirmed specificity
- **Ethical standards compliant**
Animal-free production

Anti-INPP4A antibody [EP3425(2)] (ab109622)

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