

Anti-Zebrafish PI4KB Antibody

Catalog Number: AZQ49GP3

About PI4KB

Phosphatidylinositol 4-kinase beta is an enzyme that in humans is encoded by the PI4KB gene. Inositol phospholipids have an important role in intracellular signaling in response to hormones, growth factors and neurotransmitters. Phosphatidylinositol 4-kinase phosphorylates phosphatidylinositol (PI) to phosphatidylinositol-4-phosphate (PIP). In a second step, PIP is further phosphorylated to phosphatidylinositol-4,5-bisphosphate (PIP₂), and PIP₂ is subsequently hydrolyzed by phospholipase C, producing the two intracellular second messengers, inositol 1,4,5-triphosphate (IP₃) and diacylglycerol (DAG). PI4K230, PI4K92 and PI4K55 are three PI4 kinase isoforms that have been characterized and classified according to their molecular weights of 230, 92 and 55 kD. Previously, PI4 kinases were classified into type II and III enzymes. All isoforms are located on distinct membranes and cellular compartments suggesting various tasks. PI4K230 is located at the endoplasmic reticulum and outer membranes of mitochondria, PI4K92 at the Golgi apparatus and endoplasmic reticulum, and PI4K55 at the plasma membrane and endosomes. PI4K230 is predominantly expressed in brain and moderately sensitive to wortmannin as well as specifically and irreversibly inhibited by cyclitol derivatives.

Overview

Product Name	Anti-Zebrafish PI4KB Antibody
Reactive Species	Zebrafish
Description	Boster Bio Anti-Zebrafish PI4KB Antibody catalog # AZQ49GP3. Tested in IHC applications. This antibody reacts with Zebrafish.
Application	IHC
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q49GP3

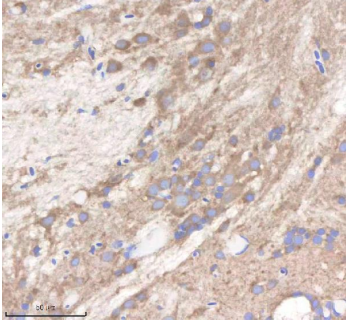
Technical Details

Immunogen	E.coli-derived zebrafish PI4KB recombinant protein (Position: D394-D690).
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

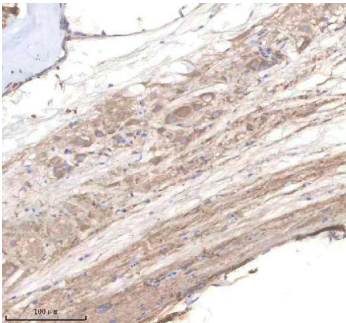
Suggested Dilutions

Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Zebrafish

Anti-Zebrafish PI4KB Antibody (AZQ49GP3) Images



IHC analysis of PI4KB using anti-PI4KB antibody (AZQ49GP3). PI4KB was detected in a paraffin-embedded section of zebrafish brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PI4KB Antibody (AZQ49GP3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of PI4KB using anti-PI4KB antibody (AZQ49GP3). PI4KB was detected in a paraffin-embedded section of zebrafish spinal tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PI4KB Antibody (AZQ49GP3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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