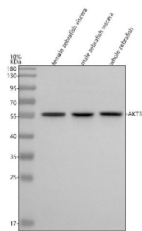


Zebrafish Akt3 Antibody (RZ1120)

Catalog No.	Formulation	Size
RZ1120	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Availability	2-3 weeks
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	D9IL79
Applications	Western Blot : 0.5-1 ug/ml
Limitations	This Zebrafish Akt3 antibody is available for research use only.



Western blot analysis of Akt3 protein using Zebrafish Akt3 antibody and 1) female zebrafish viscera, 2) male zebrafish viscera and 3) whole zebrafish tissue lysate. Predicted molecular weight ~56 kDa.

Description

RAC-gamma serine/threonine-protein kinase, also known as protein kinase Akt-3, is an enzyme that in humans is encoded by the AKT3 gene. This gene is mapped to 1q43-q44. The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). AKT3 plays an important role in brain development and is crucial for the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in up-regulation and down-regulation of MMP13 via IL13. This gene is required for the

coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands.

Application Notes

Optimal dilution of the Zebrafish Akt3 antibody should be determined by the researcher.

Immunogen

An E.coli-derived zebrafish Akt3 recombinant protein (amino acids M104-L154) was used as the immunogen for the Zebrafish Akt3 antibody.

Storage

After reconstitution, the Zebrafish Akt3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.