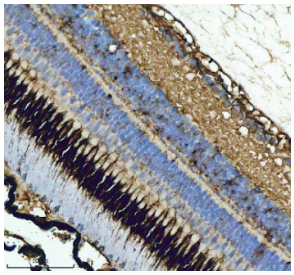
Zebrafish Gnrh2 Antibody / Gonadotropin-releasing hormone 2 / Progonadoliberin (RZ1185)

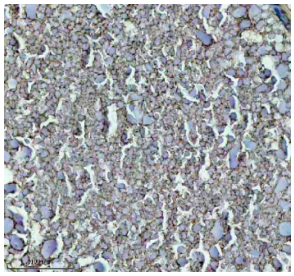
Catalog No.	Formulation	Size
RZ1185	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

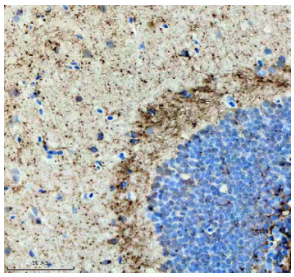
Availability	2-3 weeks
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q5Y835
Applications	Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This Zebrafish Gnrh2 antibody is available for research use only.



IHC staining of zebrafish Gnrh2 protein using Zebrafish Gnrh2 antibody, HRP-labeled secondary and DAB substrate. Gnrh2 was detected in a paraffin-embedded section of zebrafish eye tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of zebrafish Gnrh2 protein using Zebrafish Gnrh2 antibody, HRP-labeled secondary and DAB substrate. Gnrh2 was detected in a paraffin-embedded section of zebrafish ovary tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of zebrafish Gnrh2 protein using Zebrafish Gnrh2 antibody, HRP-labeled secondary and DAB substrate. Gnrh2 was detected in a paraffin-embedded section of zebrafish brain tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Gonadotropin-releasing hormone 2 (Gnrh2) is a neuropeptide encoded by the gnrh2 gene in zebrafish (Danio rerio) and belongs to the conserved family of GnRH peptides that play essential roles in the regulation of reproductive physiology. Gnrh2 is primarily expressed in the midbrain tegmentum and is involved in modulating reproductive behavior, neuroendocrine signaling, and possibly feeding and locomotor activity.

Unlike Gnrh1, which is the main hypophysiotropic form regulating pituitary gonadotropin release, Gnrh2 is considered a non-hypophysiotropic GnRH variant and is thought to function in neuromodulation and reproductive behavior across vertebrates. In zebrafish, Gnrh2-expressing neurons have been implicated in the integration of sensory and hormonal signals, contributing to the fine-tuning of reproductive timing and behavior in response to environmental cues.

Due to its evolutionary conservation and tissue-specific expression, zebrafish Gnrh2 is a valuable model for studying neuroendocrine regulation, sexual behavior, and the functional diversification of GnRH isoforms.

Application Notes

Optimal dilution of the Zebrafish Gnrh2 antibody should be determined by the researcher.

Immunogen

E. coli-derived zebrafish Gnrh2 recombinant protein (amino acids Q25-K86) was used as the immunogen for the Zebrafish Gnrh2 antibody.

Storage

After reconstitution, the Zebrafish Gnrh2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.