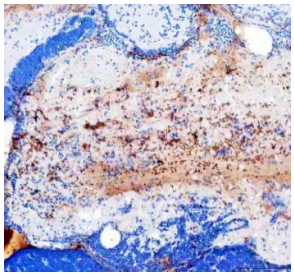
Zebrafish MMP19 Antibody / Matrix Metalloproteinase 19 Antibody (RZ1427)

Catalog No.	Formulation	Size
RZ1427	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Zebrafish
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Lyophilized from a buffered saline solution containing 2% trehalose. Reconstitute with 0.2 mL distilled water to yield a final antibody concentration of 500 ug/mL.
UniProt	A0AB32TZ88
Applications	Immunohistochemistry (FFPE): 2-5ug/ml
Limitations	This Zebrafish MMP19 Antibody / Matrix Metalloproteinase 19 Antibody is available for research use only.



Zebrafish MMP19 Antibody Brain IHC. Immunohistochemistry staining of paraffin-embedded zebrafish brain tissue using MMP19 antibody demonstrates prominent staining within neural tissue compartments, consistent with expression of Matrix Metalloproteinase 19 (MMP19). MMP19 is an extracellular matrix remodeling enzyme that regulates matrix turnover, tissue organization, and cellular interactions within the local microenvironment. The observed staining pattern is consistent with the established role of matrix metalloproteinases in tissue remodeling, developmental morphogenesis, and maintenance of extracellular matrix architecture during vertebrate development. Heat-mediated antigen retrieval was performed in EDTA buffer. Tissue sections were stained with 2 ug/ml primary antibody and visualized using DAB chromogen.

Description

Zebrafish MMP19 Antibody / Matrix Metalloproteinase 19 Antibody is designed for the detection and study of MMP19 (Matrix Metalloproteinase 19), a zinc-dependent proteolytic enzyme that participates in extracellular matrix remodeling and regulation of tissue architecture. MMP19 belongs to the matrix metalloproteinase family, a group of enzymes responsible for controlled degradation and modification of extracellular matrix components. Through these activities, MMP19 contributes to cellular migration, tissue organization, and developmental remodeling processes that are essential for normal vertebrate growth.

Matrix Metalloproteinase 19 functions within the extracellular environment where it helps regulate interactions between cells and their surrounding matrix. Controlled remodeling of extracellular matrix networks is necessary for tissue morphogenesis, cellular differentiation, and maintenance of structural integrity during development. By modifying matrix proteins and influencing the local cellular microenvironment, MMP19 contributes to dynamic biologic processes that require coordinated tissue reorganization and cellular movement.

Zebrafish serve as an important vertebrate model for studying developmental biology and extracellular matrix regulation. MMP19 expression has been associated with pathways involved in embryogenesis, organ formation, tissue repair, and morphogenetic remodeling. Because extracellular matrix composition influences cell behavior, signaling, and migration, studies of zebrafish MMP19 provide valuable insight into mechanisms that coordinate tissue development and structural organization during growth.

Beyond developmental biology, MMP19 has attracted interest in research involving wound healing, inflammation, cellular invasion, and disease-associated tissue remodeling. Matrix metalloproteinases are recognized as important regulators of extracellular environments and can influence numerous signaling pathways through controlled processing of matrix-associated proteins. As a result, MMP19 remains an important target for investigations examining how extracellular matrix remodeling contributes to both normal physiology and pathologic tissue changes.

Zebrafish MMP19 Antibody is useful for investigating extracellular matrix regulation, tissue remodeling, developmental biology, and cellular migration pathways. Researchers utilize MMP19 expression studies to better understand molecular mechanisms governing tissue organization, matrix turnover, morphogenesis, and vertebrate development.

For additional information on MMP19 function, extracellular matrix regulation, and tissue remodeling pathways, visit our MMP19 Antibody / Tissue Remodeling Protein Antibody page.

This Zebrafish antibody is part of a broader Zebrafish / Danio rerio antibody panel offered by NSJ Bioreagents.

Application Notes

The optimal working dilution of the Zebrafish MMP19 Antibody / Matrix Metalloproteinase 19 Antibody should be determined empirically by the investigator.

Immunogen

An E.coli-derived Zebrafish MMP19 recombinant protein (amino acids A237-K396) was used as the immunogen for the Zebrafish MMP19 Antibody.

Storage

After reconstitution, the Zebrafish MMP19 Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

Zebrafish MMP19 Antibody, Zebrafish Matrix Metalloproteinase 19 Antibody, Zebrafish Extracellular Matrix Remodeling Enzyme Antibody, Zebrafish Tissue Remodeling Protein Antibody, Zebrafish Matrix Degradation Enzyme Antibody, Zebrafish Cell Migration Protein Antibody, Zebrafish Metalloprotease Antibody

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