

## Anti-Zebrafish NPLOC4 Antibody

Catalog Number: AZQ7ZVI8

### About NPLOC4

Nuclear protein localization protein 4 homolog is a protein that in humans is encoded by the NPLOC4 gene. Nuclear protein localization protein 4 (NPL4, NPLOC4) was originally identified as a yeast nuclear transport protein that was later recognized as a critical component of the endoplasmic reticulum-associated degradation (ERAD) pathway. Mammalian NPL4 protein has an amino-terminal ubiquitin-like domain containing a p97 binding site, and a conserved carboxy-terminal zinc finger (NZF) motif responsible for binding ubiquitinated target proteins. NPL4 binds ubiquitin fusion degradation protein 1 (UFD1) to form a heterodimer that associates with the p97 AAA-ATPase, creating a protein complex that mediates delivery of ubiquitinated ER proteins to the proteasome.

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## Overview

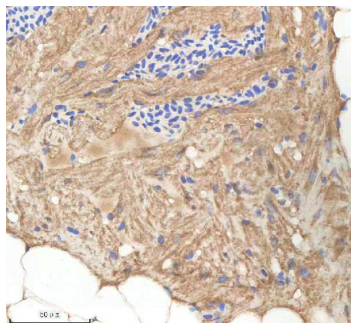
|                      |                                                                                                                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Zebrafish NPLOC4 Antibody                                                                                                                                                                    |
| Reactive Species     | Zebrafish                                                                                                                                                                                         |
| Description          | Boster Bio Anti-Zebrafish NPLOC4 Antibody catalog # AZQ7ZVI8. 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 <sub>2</sub> HPO <sub>4</sub> .                                                                                                         |
| 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           | Q7ZVI8                                                                                                                                                                                            |

## Technical Details

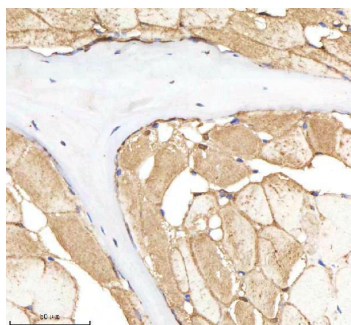
|               |                                                                           |
|---------------|---------------------------------------------------------------------------|
| Immunogen     | E.coli-derived zebrafish NPLOC4 recombinant protein (Position: M1-C510).  |
| Form          | Lyophilized                                                               |
| 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 NPLOC4 Antibody (AZQ7ZVI8) Images



IHC analysis of NPLOC4 using anti-NPLOC4 antibody (AZQ7ZVI8). NPLOC4 was detected in a paraffin-embedded section of zebrafish heart 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-NPLOC4 Antibody (AZQ7ZVI8) 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 NPLOC4 using anti-NPLOC4 antibody (AZQ7ZVI8). NPLOC4 was detected in a paraffin-embedded section of zebrafish muscle 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-NPLOC4 Antibody (AZQ7ZVI8) 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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For Research Use Only. Not for use in diagnostic procedures.