Anti-ddx24 Antibody [A3B10-R]

HA601183

Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Zebrafish
Applications:	IHC-P, IF-Tissue
Molecular Wt:	Predicted band size: 94.5 kDa
Clone number:	A3B10-R

Description: ATP-dependent RNA helicase DDX24 is an enzyme that in humans is encoded by the DDX24 gene. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial RNA splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which shows little similarity to any of the other known human DEAD box proteins, but shows a high similarity to mouse Ddx24 at the amino acid level.

Immunogen: Recombinant protein within zebrafish ddx24 aa 562-819 / 832.

Positive control: Zebrafish tissue.

Subcellular location: Nucleolus.

Database links: SwissProt: A0A0R4IA19 Zebrafish

Recommended Dilutions:

IHC-P	1:1,000
IF-Tissue	1:50

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

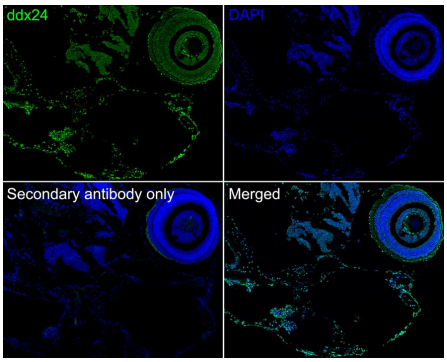

Fig1: Immunofluorescence analysis of paraffin-embedded zebrafish (head) tissue labeling ddx24 with Mouse anti-ddx24 antibody (HA601183) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (HA601183, green) at 1/50 dilution overnight at 4 ℃, washed with PBS. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).

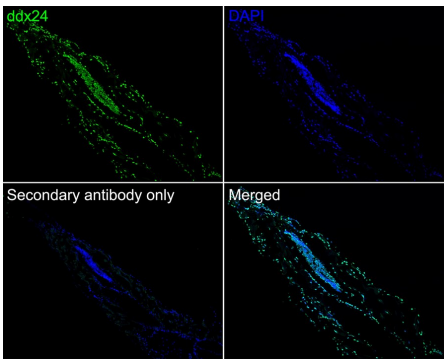

Fig2: Immunofluorescence analysis of paraffin-embedded zebrafish (tail) tissue labeling ddx24 with Mouse anti-ddx24 antibody (HA601183) at 1/50 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (HA601183, green) at 1/50 dilution overnight at 4 ℃, washed with PBS. Goat Anti-Mouse IgG H&L (iFluor™ 488, HA1125) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).

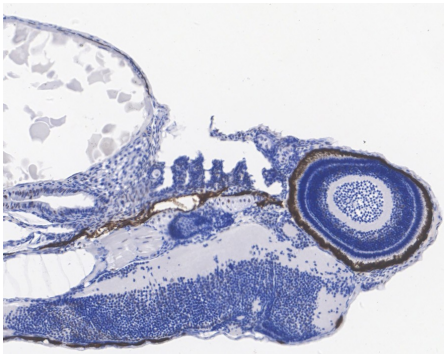

Fig3: Immunohistochemical analysis of paraffin-embedded zebrafish tissue with Mouse anti-ddx24 antibody (HA601183) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA601183) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Background References

1. Pang P. et. al. DDX24 Mutations Associated With Malformations of Major Vessels to the Viscera. Hepatology. 2019 Feb;69(2):803-816.
2. Shi D. et. al. Negative regulation of the p300-p53 interplay by DDX24. Oncogene. 2016 Jan 28;35(4):528-36.