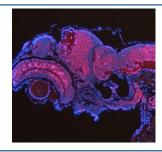


Zebrafish Ash2l Antibody / ASH2-like protein (RZ1171)

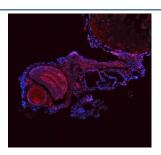
Catalog No.	Formulation	Size
RZ1171	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

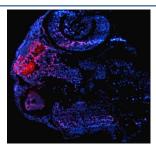
Availability	2-3 weeks
Species Reactivity	Zebrafish
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	A0A8M2B2E1
Localization	Nuclear
Applications	Immunohistochemistry (FFPE) : 2-5 ug/ml Immunofluorescence : 5 ug/ml
Limitations	This Zebrafish Ash2l antibody is available for research use only.



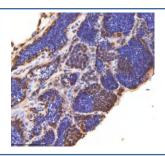
Immunofluorescent analysis of Ash2l protein using Zebrafish Ash2l antibody (red) and DAPI nuclear stain (blue) with zebrafish embryo tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing



Immunofluorescent analysis of Ash2l protein using Zebrafish Ash2l antibody (red) and DAPI nuclear stain (blue) with zebrafish embryo tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing



Immunofluorescent analysis of Ash2l protein using Zebrafish Ash2l antibody (red) and DAPI nuclear stain (blue) with zebrafish embryo tissue. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing



IHC staining of FFPE zebrafish testis tissue with Zebrafish Ash2l antibody, HRP secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Set1/Ash2 histone methyltransferase complex subunit ASH2 is an enzyme that in humans is encoded by the ASH2L gene. The Set1 histone methyltransferase protein was first identified in yeast as part of the Set1/COMPASS histone methyltransferase complex, which methylates histone H3 at Lys4 and functions as a transcriptional co-activator. While yeast contain only one known Set1 protein, six Set1-related proteins exist in mammals: SET1A, SET1B, MLL1, MLL2, MLL3, and MLL4, all of which assemble into COMPASS-like complexes and methylate histone H3 at Lys4. These Set1-related proteins are each found in distinct protein complexes, all of which share the common subunits WDR5, RBBP5, ASH2L, CXXC1 and DPY30. These subunits are required for proper complex assembly and modulation of histone methyltransferase activity. MLL1 and MLL2 complexes contain the additional protein subunit, menin. Like yeast Set1, all six Set1-related mammalian proteins methylate histone H3 at Lys4. MLL translocations are found in a large number of hematological malignancies, suggesting that Set1/COMPASS histone methyltransferase complexes play a critical role in leukemogenesis.

Application Notes

Optimal dilution of the Zebrafish Ash2l antibody should be determined by the researcher.

Immunogen

An E.coli-derived zebrafish Ash2l recombinant protein (amino acids N95-G584) was used as the immunogen for the Zebrafish Ash2l antibody.

Storage

After reconstitution, the Zebrafish Ash2l antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.