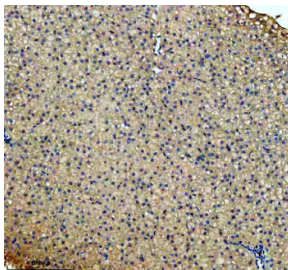


## Zebrafish Cbs Antibody / Cystathionine Beta Synthase / Cbsa (RZ1076)

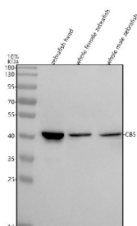
Catalog No.	Formulation	Size
RZ1076	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	2-3 weeks
<b>Species Reactivity</b>	Zebrafish
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity chromatography
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	A9JT04
<b>Localization</b>	Cytoplasm
<b>Applications</b>	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5 ug/ml
<b>Limitations</b>	This Zebrafish Cbs antibody is available for research use only.



IHC staining of FFPE zebrafish liver tissue with Zebrafish Cbs antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot analysis of Cbs protein using Zebrafish Cbs antibody and 1) zebrafish head, 2) whole female zebrafish, 3) whole male zebrafish tissue lysate. Predicted molecular weight ~63 kDa.

## Description

CBS, or Cystathionine Beta-Synthase, catalyzes the first irreversible step of transsulfuration. The CBS enzyme is a homotetramer of 63-kD subunits and requires pyridoxal phosphate and heme for activity. The CBS gene, which is mapped to chromosome 21q22, contains 23 exons, ranging in size from 42 to 299 bp. The human CBS protein can substitute for the endogenous yeast CBS protein in *Saccharomyces cerevisiae*. The catalytic domain of the CBS protein is located in the N-terminal 409 amino acids, and a regulatory domain is located in the C-terminal 142 amino acids. A mutation that deletes the C-terminal 145 amino acids of CBS could restore activity of several CBS mutant alleles found in homocystinurics.

## Application Notes

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

## Immunogen

An E.coli-derived zebrafish Cbs recombinant protein (amino acids K113-E353) was used as the immunogen for the Zebrafish Cbs antibody.

## Storage

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