

# DANRE shha Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # Azb10041a

## Product Information

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|                   |                        |
|-------------------|------------------------|
| Application       | WB, E                  |
| Primary Accession | <a href="#">Q92008</a> |
| Reactivity        | Zebrafish              |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Clone Names       | RB46723                |
| Calculated MW     | 46403                  |

## Additional Information

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|                    |  |
|--------------------|--|
| Gene ID            | 30269  |
| Other Names        | Sonic hedgehog protein A, SHHA, VHH-1, Sonic hedgehog protein A N-product, Sonic hedgehog protein A C-product, shha, shh, vhh1   |
| Target/Specificity | This shha antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 151-162 amino acids from the Central region of DANRE shha.           |
| Dilution           | WB~~1:1000 E~~Use at an assay dependent concentration.   |
| Format             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Storage            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.                                      |
| Precautions        | DANRE shha Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.   |

## Protein Information

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|          |   |
|----------|---|
| Name     | shha  |
| Synonyms | shh, vhh1   |
| Function | [Sonic hedgehog protein]: The C-terminal part of the sonic hedgehog protein precursor displays an autoproteolysis and a cholesterol transferase activity (By similarity). Both activities result in the cleavage of the full-length |

protein into two parts (ShhN and ShhC) followed by the covalent attachment of a cholesterol moiety to the C-terminal of the newly generated ShhN (By similarity). Both activities occur in the endoplasmic reticulum (By similarity). Once cleaved, ShhC is degraded in the endoplasmic reticulum (By similarity).

#### Cellular Location

[Sonic hedgehog protein]: Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q15465}. Golgi apparatus membrane {ECO:0000250|UniProtKB:Q15465}. Note=Co-localizes with HHAT in the ER and Golgi membrane. {ECO:0000250|UniProtKB:Q15465}

#### Tissue Location

Expressed in the ventral midline of the neural tube and brain. Also found in the notochord and in developing fin bud. In the developing brain, expression occurs in domains that include a discrete region in the floor of the diencephalon

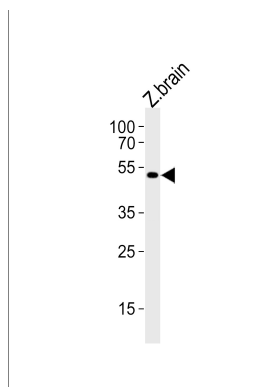
## Background

Inter cellular signal essential for a variety of patterning events during development. Signal produced by the notochord that induces somite patterning, dorso-ventral patterning of the brain and early patterning of the developing eyes. Displays floor plate-inducing activity. Binds to the patched (PTC) receptor, which functions in association with smoothened (SMO), to activate the transcription of target genes. In the absence of SHH, PTC represses the constitutive signaling activity of SMO (By similarity).

## References

Roelink H., et al. Cell 76:761-775(1994).  
Egger S.C., et al. Curr. Biol. 5:944-955(1995).  
Fietz M.J., et al. Development Suppl. 120:43-51(1994).  
Muller F., et al. Development 126:2103-2116(1999).  
Zardoya R., et al. Proc. Natl. Acad. Sci. U.S.A. 93:13036-13041(1996).

## Images



Shha Antibody (Center) (Cat.# Azb10041a) western blot analysis in zebrafish brain tissue lysate (35ug/lane). This demonstrates that the (DANRE) shha antibody detected zebrafish shha protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.