

DANRE arnt2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # Azb10020a

Product Information

| | |
|-------------------|------------------------|
| Application | WB, E |
| Primary Accession | Q9DG12 |
| Reactivity | Zebrafish |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 80972 |
| Antigen Region | 475-501 |

Additional Information

| | |
|--------------------|--|
| Gene ID | 64277 |
| Other Names | Aryl hydrocarbon receptor nuclear translocator 2, ARNT protein 2, zfARNT2, arnt2 {ECO:0000312 ZFIN:ZDB-GENE-001207-3} |
| Target/Specificity | This DANRE arnt2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 475-501 amino acids from the Central region of DANRE arnt2. |
| 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 arnt2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

| | |
|----------|--|
| Name | arnt2 {ECO:0000312 ZFIN:ZDB-GENE-001207-3} |
| Function | Transcription factor that plays a role in the development of the hypothalamo-pituitary axis. Specifically recognizes the xenobiotic response element (XRE) (By similarity). Isoform 1 acts as a transcriptional activator (PubMed: 11072074). Isoform 3 acts as a transcriptional repressor (PubMed: 10960127 , PubMed: 11072074). |

| | |
|--------------------------|--|
| Cellular Location | Nucleus. |
| Tissue Location | Isoform 1 and isoform 2 are most highly expressed in the brain, eye and skeletal muscle and to a lower degree in liver, heart, kidney and swim bladder. Isoform 3 is most highly expressed in the eye, forebrain, midbrain, hindbrain, skeletal muscle, gills and brain but is barely detectable in liver, heart, kidney and swim bladder. Before the pharyngula period isoform 3 is expressed throughout the entire embryo and during this period extensively in the brain and eye. |

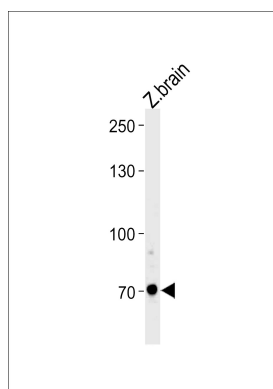
Background

Specifically recognizes the xenobiotic response element (XRE). Isoform 1 acts as a transcriptional activator. Isoform 3 acts as a transcriptional repressor.

References

Tanguay R.L., et al. Biochim. Biophys. Acta 1494:117-128(2000).
Wang W.-D., et al. Mar. Biotechnol. 2:376-386(2000).

Images



DANRE arnt2 Antibody (Center) (Cat. #Azb10020a) western blot analysis in zebra fish brain tissue lysates (35ug/lane). This demonstrates the ARNT2 antibody detected the ARNT2 protein (arrow).

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