

**ZHX2 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18752A****Specification**

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**ZHX2 Antibody (N-term) - Product Information**

|                   |   |
|-------------------|---|
| Application       | IF, WB,E  |
| Primary Accession | <a href="#">O9Y6X8</a>  |
| Other Accession   | <a href="#">O8C0C0</a> , <a href="#">NP_055758.1</a> , <a href="#">O80VX4</a> |
| Reactivity        | Human   |
| Predicted         | Mouse, Rat  |
| Host              | Rabbit  |
| Clonality         | Polyclonal  |
| Isotype           | Rabbit IgG  |
| Calculated MW     | 92307   |
| Antigen Region    | 105-131   |

**ZHX2 Antibody (N-term) - Additional Information****Gene ID** 22882**Other Names**

Zinc fingers and homeoboxes protein 2, Alpha-fetoprotein regulator 1, AFP regulator 1, Regulator of AFP, Zinc finger and homeodomain protein 2, ZHX2, AFR1, KIAA0854, RAF

**Target/Specificity**

This ZHX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 105-131 amino acids from the N-terminal region of human ZHX2.

**Dilution**

IF~~1:10~50

WB~~1:1000

**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**

ZHX2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**ZHX2 Antibody (N-term) - Protein Information****Name** ZHX2

**Synonyms** AFR1, KIAA0854, RAF

**Function** Acts as a transcriptional repressor (PubMed:[12741956](#)). Represses the promoter activity of the CDC25C gene stimulated by NFYA (PubMed:[12741956](#)). May play a role in retinal development where it regulates the composition of bipolar cell populations, by promoting differentiation of bipolar OFF-type cells (By similarity). In the brain, may promote maintenance and suppress differentiation of neural progenitor cells in the developing cortex (By similarity).

**Cellular Location**

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000269|PubMed:12741956, ECO:0000269|PubMed:17056598} Note=Colocalizes with EFNB1 intracellular domain in the nucleus {ECO:0000250|UniProtKB:Q8C0C0}

**Tissue Location**

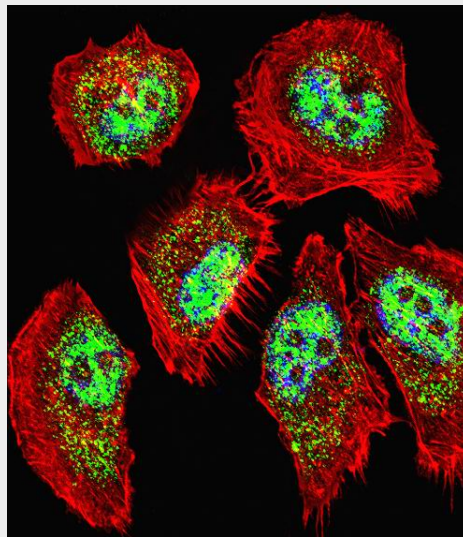
Ubiquitously expressed. Expressed in podocytes.

**ZHX2 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

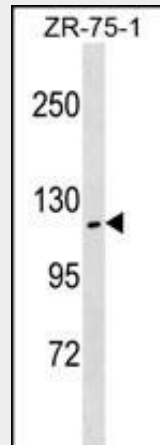
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**ZHX2 Antibody (N-term) - Images**



Fluorescent confocal image of A549 cell stained with ZHX2 Antibody (N-term)(Cat#AP18752a).A549 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with ZHX2 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10

µg/ml, 10 min). ZHX2 immunoreactivity is localized to Nucleus significantly and Cytoplasm weakly.



ZHX2 Antibody (N-term)(Cat. #AP18752a) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the ZHX2 antibody detected the ZHX2 protein (arrow).

### **ZHX2 Antibody (N-term) - Background**

The members of the zinc fingers and homeoboxes gene family are nuclear homodimeric transcriptional repressors that interact with the A subunit of nuclear factor-Y (NF-YA) and contain two C2H2-type zinc fingers and five homeobox DNA-binding domains. This gene encodes member 2 of this gene family. In addition to forming homodimers, this protein heterodimerizes with member 1 of the zinc fingers and homeoboxes family.

### **ZHX2 Antibody (N-term) - References**

- Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
- Xu, J., et al. Proc. Natl. Acad. Sci. U.S.A. 107(5):2136-2140(2010)
- Trynka, G., et al. Gut 58(8):1078-1083(2009)
- Shen, H., et al. J. Cell. Mol. Med. 12 (6B), 2772-2780 (2008) :
- Hu, S., et al. Neoplasma 54(3):207-211(2007)