

**Protein atonal homolog 8 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54678****Specification**

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**Protein atonal homolog 8 Polyclonal Antibody - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Application       | IHC-P, IHC-F, IF, ICC, E |
| Primary Accession | <a href="#">O96SQ7</a>   |
| Reactivity        | Rat, Pig, Dog, Bovine    |
| Host              | Rabbit                   |
| Clonality         | Polyclonal               |
| Calculated MW     | 34644                    |

**Protein atonal homolog 8 Polyclonal Antibody - Additional Information****Gene ID** 84913**Other Names**

Protein atonal homolog 8, Class A basic helix-loop-helix protein 21, bHLHa21, Helix-loop-helix protein hATH-6 {ECO:0000312|EMBL:AAO85773.1}, hATH6, ATOH8 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=24126](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=24126))  
target="\_blank">HGNC:24126</a>), ATH6, BHLHA21

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**Protein atonal homolog 8 Polyclonal Antibody - Protein Information****Name** ATOH8 ([HGNC:24126](#))**Synonyms** ATH6, BHLHA21**Function**

Transcription factor that binds a palindromic (canonical) core consensus DNA sequence 5'-CANNTG- 3' known as an E-box element, possibly as a heterodimer with other bHLH proteins (PubMed:<a href="http://www.uniprot.org/citations/24236640" target="\_blank">24236640</a>). Regulates endothelial cell proliferation, migration and tube-like structures formation (PubMed:<a href="http://www.uniprot.org/citations/24463812" target="\_blank">24463812</a>). Modulates endothelial cell differentiation through NOS3 (PubMed:<a href="http://www.uniprot.org/citations/24463812" target="\_blank">24463812</a>). May be implicated in specification and differentiation of neuronal cell lineages in the brain (By similarity). May participate in kidney development and may be involved in podocyte differentiation (By similarity). During early embryonic development is involved in tissue-specific differentiation processes that are dependent on class II bHLH factors and namely modulates the differentiation

program initiated by the pro-endocrine factor NEUROG3 (By similarity). During myogenesis, may play a role during the transition of myoblasts from the proliferative phase to the differentiation phase (By similarity). Positively regulates HAMP transcription in two ways, firstly by acting directly on the HAMP promoter via E-boxes binding and indirectly through increased phosphorylation of SMAD protein complex (PubMed:<a href="http://www.uniprot.org/citations/24236640" target="\_blank">24236640</a>). Repress NEUROG3-dependent gene activation in a gene-specific manner through at least two mechanisms; requires only either the sequestering of a general partner such as TCF3 through heterodimerization, either also requires binding of the bHLH domain to DNA via a basic motif (By similarity).

**Cellular Location**

Nucleus. Nucleus speckle. Cytoplasm {ECO:0000250|UniProtKB:Q99NA2}

**Tissue Location**

Expressed in lung, liver, kidney, heart and pancreas. Expressed in endothel of umbilical vessels

**Protein atonal homolog 8 Polyclonal Antibody - 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](#)

**Protein atonal homolog 8 Polyclonal Antibody - Images**