

**ATBF1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54629****Specification****ATBF1 Polyclonal Antibody - Product Information**

Application	IHC-P
Primary Accession	<a href="#">Q15911</a>
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	404419

**ATBF1 Polyclonal Antibody - Additional Information****Gene ID** 463**Other Names**

Zinc finger homeobox protein 3, AT motif-binding factor 1, AT-binding transcription factor 1, Alpha-fetoprotein enhancer-binding protein, Zinc finger homeodomain protein 3, ZFH-3, ZFH3, ATBF1, C16orf47 {ECO:0000312|HGNC:HGNC:777}

**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.

**ATBF1 Polyclonal Antibody - Protein Information****Name** ZFH3**Synonyms** ATBF1, C16orf47 {ECO:0000312|HGNC:HGNC:7**Function**

Transcriptional regulator which can act as an activator or a repressor. Inhibits the enhancer element of the AFP gene by binding to its AT-rich core sequence. In concert with SMAD-dependent TGF-beta signaling can repress the transcription of AFP via its interaction with SMAD2/3 (PubMed:<a href="http://www.uniprot.org/citations/25105025" target="\_blank">25105025</a>). Regulates the circadian locomotor rhythms via transcriptional activation of neuropeptidergic genes which are essential for intercellular synchrony and rhythm amplitude in the suprachiasmatic nucleus (SCN) of the brain (By similarity). Regulator of myoblasts differentiation through the binding to the AT-rich sequence of MYF6 promoter and promoter repression (PubMed:<a href="http://www.uniprot.org/citations/11312261" target="\_blank">11312261</a>). Down-regulates the MUC5AC promoter in gastric cancer (PubMed:<a href="http://www.uniprot.org/citations/17330845" target="\_blank">17330845</a>). In association with RUNX3, up-regulates CDKN1A promoter activity following TGF-beta stimulation

(PubMed:<a href="http://www.uniprot.org/citations/20599712" target="\_blank">20599712</a>). Inhibits estrogen receptor (ESR1) function by selectively competing with coactivator NCOA3 for binding to ESR1 in ESR1-positive breast cancer cells (PubMed:<a href="http://www.uniprot.org/citations/20720010" target="\_blank">20720010</a>).

#### **Cellular Location**

Nucleus. Cytoplasm Note=Translocates from the cytoplasm to the nucleus following TGF-beta stimulation. Expressed in nuclear body (NB)-like dots in the nucleus some of which overlap or closely associate with PML body

#### **Tissue Location**

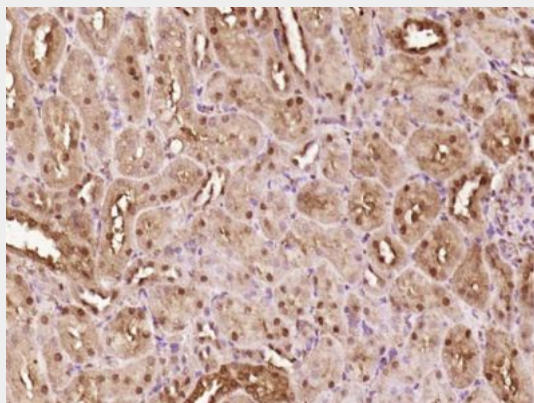
Not found in normal gastric mucosa but found in gastric carcinoma cells (at protein level). Expression is higher in ER- positive breast tumors than ER-negative breast tumors (at protein level).

### **ATBF1 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](#)

### **ATBF1 Polyclonal Antibody - Images**



Paraformaldehyde-fixed, paraffin embedded (Rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ATBF1) Polyclonal Antibody, Unconjugated (bs-11805R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.