

Anti-ATBF1 antibody



Description	Rabbit polyclonal to ATBF1.
Model	STJ91742
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, IHC
Immunogen	Synthesized peptide derived from human ATBF1
Immunogen Region	730-810 aa, Internal
Gene ID	463
Gene Symbol	ZFHX3
Dilution range	IHC 1:100-1:300ELISA 1:10000
Specificity	ATBF1 Polyclonal Antibody detects endogenous levels of ATBF1 protein.
Tissue Specificity	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).
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	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

Molecular Weight	404.419 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:777OMIM:104155
Alternative 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
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 . 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 . Regulator of myoblasts differentiation through the binding to the AT-rich sequence of MYF6 promoter and promoter repression . Down-regulates the MUC5AC promoter in gastric cancer . In association with RUNX3, upregulates CDKN1A promoter activity following TGF-beta stimulation . Inhibits estrogen receptor (ESR1) function by selectively competing with coactivator NCOA3 for binding to ESR1 in ESR1-positive breast cancer cells .
Cellular Localization	Nucleus Cytoplasm. 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.
Post-translational Modifications	Phosphorylation decreases its sensitivity to calpain-mediated proteolysis. Adult brain-derived ZFH3 is sensitive, but embryonic brain-derived ZFH3 is resistant to calpain 1-mediated proteolysis. Ubiquitinated, leading to its proteasomal degradation. Nuclear localization is essential for its sumoylation.