
ATBF1 Rabbit pAb

Catalog Number: bs-11805R

Target Protein: ATBF1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Rat (predicted:Human, Mouse, Rabbit, Sheep, Cow, Chicken, Dog, Horse)

Predicted MW: 404 kDa

Subcellular Nucleus

Locations:

Entrez Gene: 463

Swiss Prot: Q15911

Source: KLH conjugated synthetic peptide derived from human ATBF1: 301-400/3703.

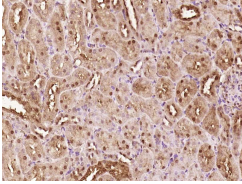
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: AT-motif binding factor 1 (ATBF1) binds to the AT-rich core sequence element in the human α -fetoprotein enhancer (1). Alternative splicing generates the ATBF1-A and ATBF1-B (2,3). While ATBF1-A contains a 920-amino acid extension at the N-terminus, both ATBF1-A and ATBF1-B contain 4 DNA-binding homeobox domains (2,3). Additionally, ATBF1-A contains 23 zinc finger motifs while ATBF1-B contains 18 zinc finger motifs (1-3). The N-terminal extension unique to ATBF1-A has transcriptional repressor activity (4). In the small intestine, ATBF1-A inhibits expression of the brushborder enzyme aminopeptidase-N through direct binding to the AT motif element (5). Besides functioning in transcription regulation, ATBF1 also functions in ATPase activity (6). ATPase activity associated with ATBF1-A is DNA/RNA-dependent and requires both homeobox domains and zinc finger motifs (6). ATBF1 is highly expressed in spleen and brain tissues (7). The gene encoding human ATBF1 maps to chromosome 16q22.3-q23.1 (8).

VALIDATION 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.