

**bs-11805R****[ Primary Antibody ]****BioSS**  
**ANTIBODIES**

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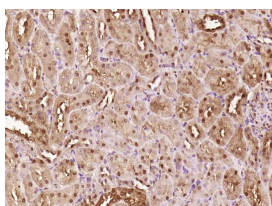
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**ATBF1 Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500)  <b>Reactivity:</b> Rat (predicted: Human, Mouse, Rabbit, Sheep, Cow, Chicken, Dog, Horse)  <b>Predicted MW.:</b> 404 kDa  <b>Subcellular Location:</b> Nucleus
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 463	<b>SWISS:</b> Q15911	
<b>Target:</b> ATBF1		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human ATBF1: 301-400/3703.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> AT-motif binding factor 1 (ATBF1) binds to the AT-rich core sequence element in the human $\alpha$ -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.