

**Goat Anti-AIBZIP / CREB3L4 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1037a****Specification**

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**Goat Anti-AIBZIP / CREB3L4 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q8TEY5</a>
Other Accession	<a href="#">NP_570968</a> , <a href="#">148327</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	43432

**Goat Anti-AIBZIP / CREB3L4 Antibody - Additional Information****Gene ID** 148327**Other Names**

Cyclic AMP-responsive element-binding protein 3-like protein 4, cAMP-responsive element-binding protein 3-like protein 4, Androgen-induced basic leucine zipper protein, AibZIP, Attaching to CRE-like 1, ATCE1, Cyclic AMP-responsive element-binding protein 4, CREB-4, cAMP-responsive element-binding protein 4, Transcript induced in spermiogenesis protein 40, Tisp40, hJAL, Processed cyclic AMP-responsive element-binding protein 3-like protein 4, CREB3L4, AIBZIP, CREB4, JAL

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-AIBZIP / CREB3L4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-AIBZIP / CREB3L4 Antibody - Protein Information****Name** CREB3L4**Synonyms** AIBZIP, CREB4, JAL**Function**

Transcriptional activator that may play a role in the unfolded protein response. Binds to the UPR element (UPRE) but not to CRE element. Preferentially binds DNA with to the consensus sequence 5'-T[GT]ACGT[GA][GT]-3' and has transcriptional activation activity from UPRE. Binds to NF-kappa-B site and has transcriptional activation activity from NF-kappa-B-containing regulatory elements (By similarity).

#### **Cellular Location**

Endoplasmic reticulum membrane; Single-pass type II membrane protein. Golgi apparatus membrane; Single- pass type II membrane protein. Note=May also be located in Golgi apparatus

#### **Tissue Location**

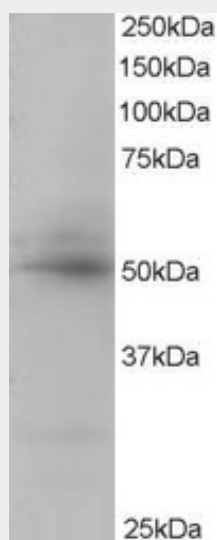
According to PubMed:11830526, exclusively expressed in the prostate. Expressed in breast and prostate cancer cell lines Expressed in prostatic luminal epithelial cells (at protein level) Expression is significantly more abundant in prostate cancer than in benign prostatic tissue (prostatic hyperplasia). According to PubMed:12111373, also expressed in brain, pancreas and skeletal muscle, and at lower levels in small intestine, testis, leukocyte and thymus

### **Goat Anti-AIBZIP / CREB3L4 Antibody - Protocols**

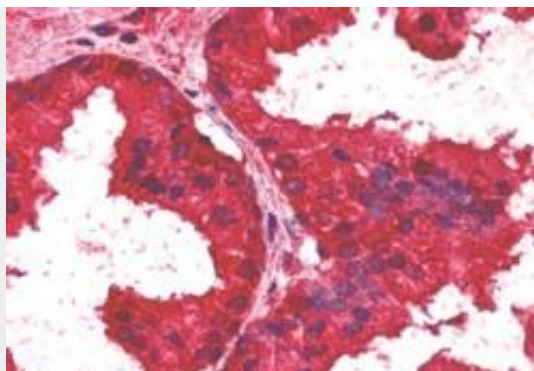
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Goat Anti-AIBZIP / CREB3L4 Antibody - Images**



AF1037a staining (0.5 µg/ml) of Human Placenta lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



AF1037a (2.5 µg/ml) staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **Goat Anti-AIBZIP / CREB3L4 Antibody - Background**

cAMP response element-binding (CREB) proteins are a family of mammalian transcription activators. For further background information on CREB proteins, see CREB1 (MIM 123810).

#### **Goat Anti-AIBZIP / CREB3L4 Antibody - References**

Transcriptional profiling of genes that are regulated by the endoplasmic reticulum-bound transcription factor AibZIP/CREB3L4 in prostate cells. Ben Aicha S, et al. *Physiol Genomics*, 2007 Oct 22. PMID 17712038.

CREB4, a transmembrane bZip transcription factor and potential new substrate for regulation and cleavage by S1P. Stirling J, et al. *Mol Biol Cell*, 2006 Jan. PMID 16236796.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. *Proc Natl Acad Sci U S A*, 2002 Dec 24. PMID 12477932.

Molecular cloning and characterization of a novel human cAMP response element-binding ( CREB) gene ( CREB4). Cao G, et al. *J Hum Genet*, 2002. PMID 12111373.

Atce1: a novel mouse cyclic adenosine 3',5'-monophosphate-responsive element-binding protein-like gene exclusively expressed in postmeiotic spermatids. Stelzer G, et al. *Endocrinology*, 2002 May. PMID 11956138.