

**ATF6 Antibody (C-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS12299****Specification**

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**ATF6 Antibody (C-Terminus) - Product Information**

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Application       | WB, IHC-P, IF, ICC                                   |
| Primary Accession | <a href="#">P18850</a>                               |
| Reactivity        | Human, Mouse                                         |
| Host              | Rabbit                                               |
| Clonality         | Polyclonal                                           |
| Calculated MW     | 75kDa KDa                                            |
| Dilution          | WB~~1:1000<br>IHC-P~~N/A<br>IF~~1:50~200<br>ICC~~N/A |

**ATF6 Antibody (C-Terminus) - Additional Information****Gene ID** 22926**Other Names**

Cyclic AMP-dependent transcription factor ATF-6 alpha, cAMP-dependent transcription factor ATF-6 alpha, Activating transcription factor 6 alpha, ATF6-alpha, Processed cyclic AMP-dependent transcription factor ATF-6 alpha, ATF6

**Target/Specificity**

16 amino acid peptide from near the carboxy terminus of human ATF6

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

**Precautions**

ATF6 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**ATF6 Antibody (C-Terminus) - Protein Information****Name** ATF6**Function**

[Cyclic AMP-dependent transcription factor ATF-6 alpha]: Precursor of the transcription factor form (Processed cyclic AMP- dependent transcription factor ATF-6 alpha), which is embedded in the endoplasmic reticulum membrane (PubMed:<[a href="http://www.uniprot.org/citations/10564271" target="\\_blank">10564271](http://www.uniprot.org/citations/10564271)</a>, PubMed:<[a href="http://www.uniprot.org/citations/11158310" target="\\_blank">11158310](http://www.uniprot.org/citations/11158310)</a>, PubMed:<[a href="http://www.uniprot.org/citations/11779464" target="\\_blank">11779464](http://www.uniprot.org/citations/11779464)</a>). Endoplasmic reticulum stress promotes processing of this form, releasing the transcription factor form that translocates into the nucleus, where it activates

transcription of genes involved in the unfolded protein response (UPR) (PubMed:<a href="http://www.uniprot.org/citations/10564271" target="\_blank">10564271</a>, PubMed:<a href="http://www.uniprot.org/citations/11158310" target="\_blank">11158310</a>, PubMed:<a href="http://www.uniprot.org/citations/11779464" target="\_blank">11779464</a>).

#### Cellular Location

Endoplasmic reticulum membrane; Single-pass type II membrane protein. Golgi apparatus membrane; Single-pass type II membrane protein. Note=Translocates from the endoplasmic reticulum to the Golgi, where it is processed.

#### Tissue Location

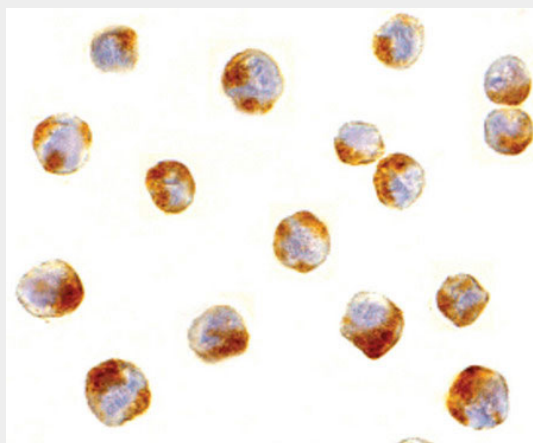
Ubiquitous..

### ATF6 Antibody (C-Terminus) - Protocols

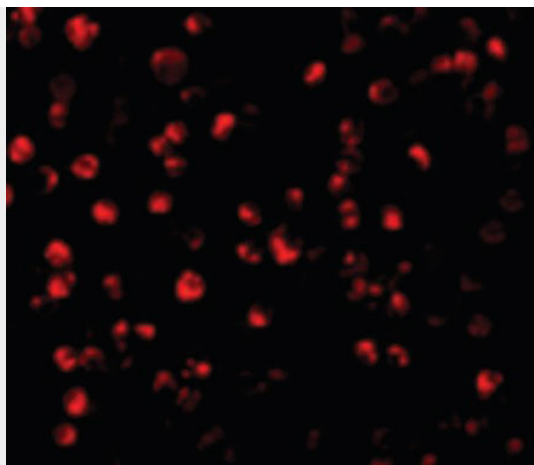
Provided below are standard protocols that you may find useful for product applications.

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

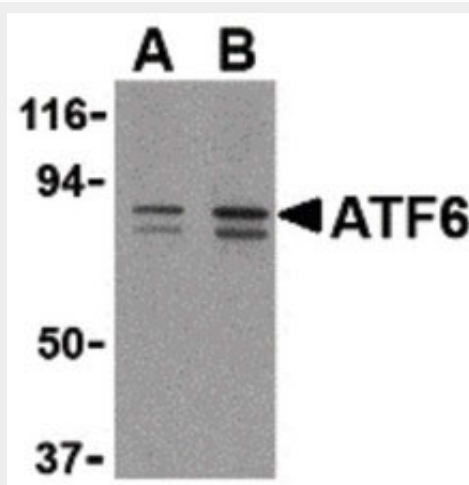
### ATF6 Antibody (C-Terminus) - Images



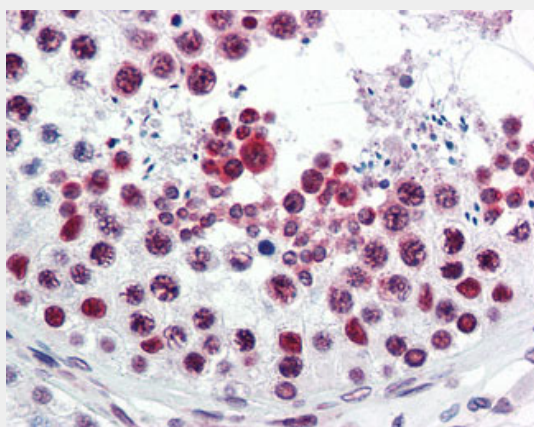
Immunocytochemical staining of MCF7 cells using ATF6 antibody at 10 ug/ml.



Immunofluorescence of ATF6 in MCF7 cells with ATF6 antibody at 10 ug/ml.



Western blot of ATF6 in MCF7 cell lysate with ATF6 antibody at (A) 0.5 and (B) 1 ug/ml.



Anti-ATF6 antibody IHC of human testis.

#### **ATF6 Antibody (C-Terminus) - Background**

Transcription factor that acts during endoplasmic reticulum stress by activating unfolded protein response target genes. Binds DNA on the 5'-CCAC[GA]-3' half of the ER stress response element (ERSE) (5'-CCAAT-N(9)-CCAC[GA]-3') and of ERSE II (5'-ATTGG-N-CCACG-3'). Binding to ERSE requires binding of NF-Y to ERSE. Could also be involved in activation of transcription by the serum response factor.

**ATF6 Antibody (C-Terminus) - References**

Zhu C.,et al.Mol. Cell. Biol. 17:4957-4966(1997).  
Yoshida H.,et al.J. Biol. Chem. 273:33741-33749(1998).  
Gregory S.G.,et al.Nature 441:315-321(2006).  
Hai T.,et al.Genes Dev. 3:2083-2090(1989).  
Hai T.,et al.Genes Dev. 4:682-682(1990).