10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ATF6 Antibody (C-Terminus)

Rabbit Polyclonal Antibody
Catalog # ALS12299

Specification

ATF6 Antibody (C-Terminus) - Product Information

Application	**ICC, IF, WB, IHC**
Primary Accession	P18850
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**75kDa KDa**

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:10564271, PubMed:11158310, PubMed:11779464). 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:10564271, PubMed:11158310, PubMed:11779464).

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.

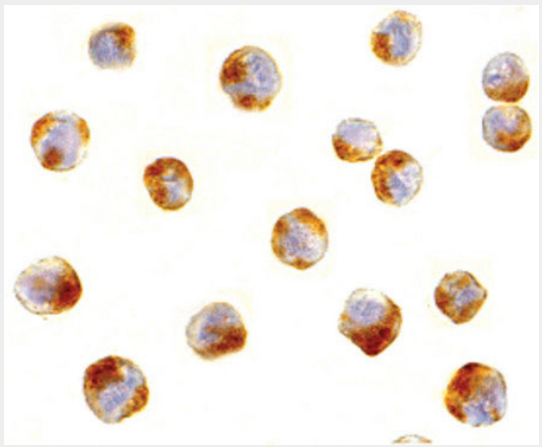
Tissue Location
Ubiquitous..

ATF6 Antibody (C-Terminus) - Protocols

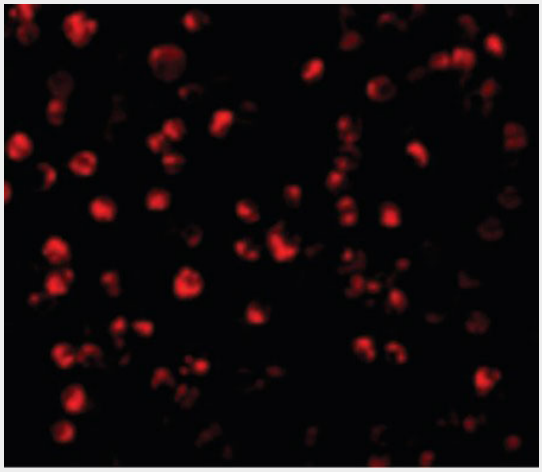
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ATF6 Antibody (C-Terminus) - Images

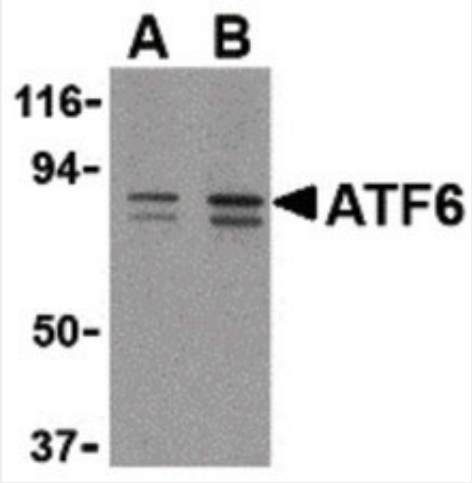


Immunocytochemical staining of MCF7 cells using ATF6 antibody at 10 ug/ml.

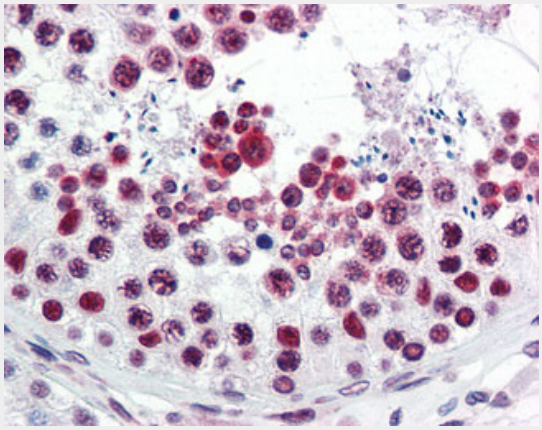


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Immunofluorescence of ATF6 in MCF7 cells with ATF6 antibody at 10 ug/ml.



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).
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